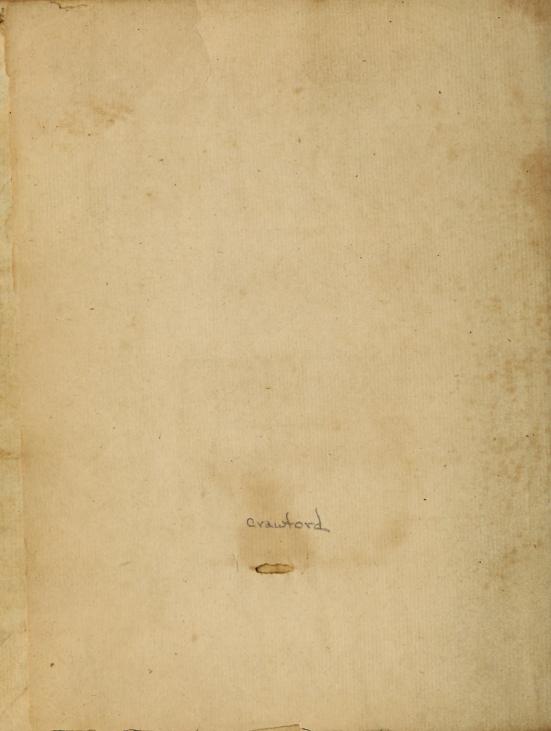


Alexande Menre St Lectures on Mounts Elist. 1758 Taken by John Hamilton. Smith.





. I Freatise on Wounds. 1. Profe for Hex Monro Senior. Medicine is commonly divided into five parts. 1. DY \$10 NOTIKH, or an exact Inowhedge of the human Body. II. Trabohoria, or Hustory of Biseases. III ZUNEIWTIKN Or the Sign of these Diseases. IV. VriEIVN Or means of preserving Health These we must be acquainted with and understand before we can prokend to venture on the V. DEPATIEUTIKA Or method of curing and healing diseases, which is performed by 13824 Ordering aright Det by Pharmacy

Tharmacy or Trescription of the Medicines and by Jusquy or manual operation. This last is the province that falls to my share, we would appear to be of aux long standing if not more ancient than any part of mide. : cine: For we see by the antediluvian distory that very soon after the Escation tends! Unimosities and long popels of the hearts of men, hence Mapines musden and pelly Weers ensued, by which the parties might have been exposed to external Inquires, for ply some Premedy, that is surgery, the perhaps very imperfect, must have been exexcised. While otherwise the Inhabelants of the basth hod so lemposately in such a moderate lumate and sevene air that they as wed to those prochegious ages of which the yestpluse gives us an occount some of them leved to without being obnoxious to those diseases which this day so much infest manhund. Very soon after the flood we find the date fesent nations that were necessarily formed by the Confusion of Tonques at Babel

. 2.

differing with their Intrast, jaring with their Houghbours, and calling in all the afsis lance they can get or power they can make to oppose one another, than forming numerous asmies and fighting pulched Battles and cestainly these must have been People appointed to take case of the seek that suffered in these Battles, so for it seems probable | that stura gery was exercised in these earliest times but since we have no account of pasheuler persons who applied themselves to this art let us examine what we can learn of such from the Hedhen History and Tables. Prison the genlaur seems to be the first taken notice of the his scholar asculapius, son of appollo, who is said to have lived a little time before the Trojan was, was the most renowned for his great Shill desfied and is to this day commonly known as the Dalron of medicine. Heat we come to those who were employed in the Trojan was The two most famous and machaon by Dodilorius Sons of Asculapius as Homas Slead 2? Speaks of them Dopes Trans : lation page 390.

Jo

To these his shill the Oarent God imparts, Divine Professors of the healing arts. A specimen of machaon's Practice we sw Head 4th when called to menetaus mound. ed Tope 250 after drawing the arrow. He such'd the Blood & Sovereign Ball infuso which therongove toculapens us'd. le may however observe that several other Princes and Heroes were acquainted with the Form was therons pupil as Shardthe XI burypslus wounded desires Patroclus's afsistance, begs him to apply Balsam. Inch as sage theron Sire of Thanner of Once lawful Achilles, of Mchilles the His internato dear friend Patroches like.
-miso performed Gururgical Operations of applied diefsings as in the vame Head ogo. There shelch'd at length the mounded Serve lay Sabroclus cut the forhead steel away.

Then in his hands a Bitter heed he bruis'd The wound he wash'd, & steplich juice infusid The The closing Flesh that Instant ceased to glow " The wound to tosture and the Blood to flow.

The see likerous Europepulus in the same Book giving Dalroclus Buchons how to manage his rounds 693.

with lubervarm water wash the Gove away with healing Balms the raging smart allay

of the Professors of this art, till the great, the Divine Hypocrates, who was descended from Hercules and Asculapius, being in a light of lescent the 20th from the one, and the 10th or 19th from the other. He as the father of medicine, the first that compiled it, and brought it into Order and laid down to his posterity certain In his works there are several Treatises of Surgery, as of Meers, Testulas, Fractures Laurations, wounds of the head to and this; the whole these are agreat number of precepts and Observations buters persed whoever

desires

6: desires a more complet History of this illustrous Farent of Phisich may consult Le flere's history de la medicine, or Fallopius in thepreface to his Book, De Capilis Vulnerbus. All Hippocrates's Family had been for vever - ral aged before him and continued after his death to be Musicians, but either did notionte or else their works were lost, before our been transmited to us and who frequently beat of Surgery also are Ageneta, Saulus Orebasus Deatrices Fallopius, and the great Galen, among the homans below the Latin Hep? poesates is the only author the he mentions Several others farmous in his day in the pre-face to the of the Book of medicine, to wit Triphon Enelpsshis and meyes: But there is no other monuments of them. He libervise in this preface talls us that after Suppoceates several bayptians Surgeons were very famous particularly The lovenus who he could a greet author that has most deligently treated of this subject in several volumes, Gorgeous Sostrales the two Chirones appollonic with

some others whose labours have parished, are

limenise named by him.

About the loth Century after our savious all bur ope was overrun by the Barbarous, yother and Vandales; and all Liberaluse and liberal arts were very near abolished; among the vest medicine suffered very much, only in spain Posia and africa, some arabians becoming mousters of the Old Liberaries still hept up the knowledge of medicine in those parts. The most famous of them are averagent (Vocrthoe, Prosist and alouensis who treat likewist of surgery.

to spread again and medicine as a part of it to Sourch, but all the authors were so much begated to the openions of Galen of these arabians that their authority ipsochiet was enough even to Bulance matter of fact.

In the 11th fentury the Chemists began . Violently to oppose the Galenical Sochines . back of these sects had their followers . and admisers; who were entirely wedded to the opinions of their Podrons, and

thuis

Thus they continued in a state of Schism till of late that the world thought fit to thro of that Mavery of implicate faith, of so hearmen to nothing but what wows founded on lesperments or just vound theorson = These have been such numbers of authors that have wrote on Surgery thesexteneral your and ages bygone that it would consume too much time, and that to very little purpose to give you a Calalogue of this works dince at Louise in Vander Dinding De Scriptis me : dieis you may see them; and that I'll be ob-: ledged to mention the most considerable of them in this following discourse. This short shetch of the History of Jurgery I think sufficient for our purpose. If you desire a fuller account of it consult Aurelius devesioned De Chiene, medicin, Sib. 1. Cars prima, Cap. 2. De vano Chingos. Statu. The very Designation of this art XEIDS preia, which might be applied to any work or operation of the hand, but is appropriated to thispart of medicine sufficiently denotes the Carelling

19.

Excellency of it. Then let us observe how many Diences and Heroes have exercised it. For besides those already mentioned, which at least declares the fractive in Homans days, History furnishes us north agreat many. One particular that I shall mention as of our onon Thing Sames the 1sth one of the bast Drinces that ever Irrayed our Scoptse. Buchanan lowards the end of his life tills us, that one thing he greedely sucht in from antient custom, most shalfully to hear pounds, which shill was of old common to all our scotish hobility.

Then let us consider what great honous has been done to the Professors of this procedural Swence? Reprocessed had statues exected for him at the publish charge, Galen was invited by princes to their Courts, then the daily bespecience over how of the numbers that are saved from the Saves of cleath by it sufficiently sheres its

Stomes Stead XI. Inakes one of his Herois Speak thus of machaon, who as far as we can beern was only bomployed in Susgery Popes Homes 686. 10.

A wise Physician shelld our wounds to heal Is more than armies to the Common Weal.

Hence we may at least conclude that the prosecution of this Study is neither disho--noureable nor unshulfull. Durgery asis is a methodical application of the hand for removing diseases has for its subject and Chemidies only these maladies that asersub ? -jeet to our Venses. But as the right understanding of these is absolutely neces cases, and that in this undied lases the ha = hent very often is committed to the Surgeons case entirely or a Doctor cannot be had. He cannot be a good Physician who is not a good Jurgeon, who is not pretty well de = quainted with the other parts of medicine nay perfectly master of some of them. Wherefore in the following discourses I shall not so strictly confines myself to the topical application but libraries hint at the Internal Premedies as far as I shall think I necessary for surgeons to be acquainted with them in several lases, Thes

This Practical Science is divided into four Branches. 1. Synthesis, or Joining and reunding part that are contrary to the design of nature se = parated; as in curing of wounds, Preducing Luxalions, Solling of Fractures. 2. Dieresis, or dividing and deparaling those parts, that by their union are hurtful, as in perforating the anus or Vulva of children Veparaling of members grown logether after Burning 3. Exausesis, or the lating away what is Superfluous or noscious, as in ampulating a Sphacelated member, extracting Bullet lodged within the Body, lettingout estras vasated Blood, water or pus. It. Prosthesis or making up a want or supplying a defect, as fetting timber Sage to Slumps setting in astificial byes or nust besides being acquainted with all the parts of medicine, pasticularly anatomy have according to felous in his preface to

his Lib. 7. these other Qualifications astrong Sleady hand that does not shake using both right and left, a Distinct Sharp lighter bije, not limerous or so much given to Dely that he cannot go thro his work, or moved with the palients crys so as either to make too great haste or cut less than is necess - vary, but ought to do every thing es ofhe were not at all affected with the patients Complaints. A regular Surgeon thus qualified who would practise right, ought before he was about to ciese to be throughly acquaint. -od with the flistory of the Disease in which he is to have regard to the Da: tients des whether man or women to his age if young middle aged or Old to his Constitution and his former ways of horney and inform himself how the clisease in ? execuse if there was any known cause for it, then to consider the nature of it, and the place it is in, and the offects it has produced which hinonledge is called Durynosis whence the Drognosis or what the consequence

mill be must be drawn and then see what method of cure is pointed out which is lermed the Indication.

To making this way of procedure mon clear let us suppose the ease of one with a broken leg, and the appearance of a Gangrene from a full, the supposition and the constitution of the Batient known are sufficient for the Diag-

The Prognosis follows from this, for beample if it is a noman with thild an old decript person one labouring under a conwurn thon of Dropsy: There is much left hope than if it was a young well blooded healthsome Fellow, or if the Georgeene seems to increase very fast, and the Bones are sone shakered, the Drognosis must be much more unfavourable than if it was only or simple Fracture and the examprene very slow.

The Indication must vary also decord, incy to the Diagnosis. If the Dakent was used to great queentiles of strong lequot desarring

14. debarring him interely the use of them, might be destructive whereas to others not decumend to them would be of the worst consequence. A young Olethorich person would re z quere to be Blooded plentifully, an old ome: :ciate feeble Palient would need cordials; If. the Gangrane Upreads very fast and indices to a Spiracelus, ampulation will be necessary whereas otherwise Searcheations and Topical applications would perform the cure. of particular lases that might be supposed and do dady happen in practice, one cannot be conveneed of the vast advantage of a Makonal Surgeon, whose practice is con: form and adapted to the different buis gencies of he Patient, above any meet Comperiele, noho prelends to any infalleble Memody for a particular Disease, northout Lips -ping further in the affair man that the Discuse is ranked in which a chaft which he believes his dicanum will soot ? drive away wherever lod good. When once the preparation to be performed

is determined the Pule is to do it quickly roth:
out horocoes neglecting what is necessary for
hurring, casely pulling the Patient to as little
pain as possible, yet not sparing him to his
cost, safely, the surgeon is not to be too very
trous or hardy yet to go about his duly
duly and regularly.

Of Wounds in General

Sib. 2. lap. 1. is a solution of continuity made or union of the parts divided by some beformal Instrument in a soft part. St. Proid Book 3. lap. 1. adds to this Definition-cutting instrument. In my openion Boes haave apprison 1/15, defines it the most exactly of any and neases to the common a ceeption. Un wound says he is a Precent Bloody solution of unity, in a soft part made by a hard and tharp Instrument By its character

16: of secent and Poloody, his distinguished for an wheer beeng in a soft part it differs from a Fracture being inflicted by a sharp Instrus ment, hunders it to be confounded by a for z lusion. Noro since our whole Body is medo up of an almost infinite Socies of vefsels, and their contained asculating fluids, and that the night performance of all our actions when thes the vital, natural or animal, depends on the right Jone of the Volsold and due rescula -- tion of the fluids; hence it follows that the Effects of an wound must be the Lesson of The action of some part because by it there) must be vefsels destroyed and Liquids Of : fiwed, and thence the first distinction of wounds is taken voy. into deadly and not deadly. For if any part is hurt, by which Lesion the circulation may soon be put an end to, or the patient die; "lis called a mostal or deadly wound. Some of these are absolutely or inevelably Meroes, those that penetrate into the Cavilles

of the Heart. Others left to themselves are not assisted by art, might will the Portient but if treated shulfully are not of so ill consequence, for becample the Subital artery cut assunder mould soon by the effusion of Blood put an end to the life of the Pakent, if no means were employed to henderit; but by comprefsion or Ligature this muscheef may be prevented.

eAll other wounds come under the deno; mination of not deadly, yet by the neglect of either Gurgeon or Butient, these may be; come of the other work; as for instance, the Gurgeon may by too light Bandage, or the Patient by Debauches bring on a mortification to the character these rous a slight simple wound.

The not deadly wounds are divided into several Classes according to the different parts affected. Hence we observe Muthors dividating their Treatises of wounds into so many their treatises of wounds into so many the pters as these are parts to be hard which are the common Tequiments, museles, Aslenica Veins, Merves, Teristons Incombranes and Ligaments.

The

The second distinction of those rounds, is from the Meapon that inflected them, and the manner of its being applied, hence they are vaid to be lutte Dunctures by Lawratton. The third difference taken notice of, is in the wound itself, first as to its figure, whether Isaught esther large or lettle, long or short, deep or super-Ith They observe the decidents that eithered it, As Inflamation, Gangrene, Hemorshage Pain, extraneous Bookes or Porson remoins -ing init. For these destinctions of wounds see Celvus Sib. 5. Cap. 26. Sect. 5. And Aqua ? chendent Lib. 2. Tap. 1. Some authors have to very little purpose acheel their Brains to make stell a great many Mubolivisions, which serve for nothing but to Buthen ones memory with a great many harsh uncouth words, and therefore I forelear mentioning them and shall proceed according to the method proposed in the Introduce trop to the Diagnosis of wounds, and beamine the Observable Thenomena of the Leveral sorts

Simple, and so orderly going on to the more complicate complicato Supposing then an wound apparent to the loge, was given to a healthsome strongman without hierting any considerable astering Herve or Tendon, what uppearances would it have from first to last. The divided paris mould soon be retracted and soparated from one another, which is oneing to the natural Body whereby they Shorten themselves, whenever the Aselching cause or Presistance to their Contraction is semoved: Immediately after This deparation of the lip of the wound, theblood rushed out impeluously but gradualy stops of itself; the heason of which is that the whole Body being a congeries of Possels an wound cannot be inflicted without cutting some of them. the rfore their Liquids our out very quickly at their when mouths, till once by their ma-- lural fundraction, they are drawn back unver the surrounding parts, and Straden their own mouths consequently the Flux of the contained

20.

(Flunds must be slopt, after which the cavily of the wound appears covered with a Bloody Coust which is nothing but the congretated Blood suchency still in the mouths of the Vef-- sels; and a then redish walry humour comes hehering out, that is the vefsels are so much contracted in their Diameters that they can-=not transmit Blood nor any liquor of yorasser parts than this Humous; These Phenomena happen very soon upon the wound, but then Sometime after the lifes of the wound begin to be inflamed, pain'd swelled and relorted natural consequences of the straulning the mouths of the Vefsels, and Obstruction of their Signed, in them.

At the same time that the lips of the wound are thus affected, the Pakent labours under a Feverish disposition, and its attendants feel and thirst: Which is easily accounted for from the Obstruction of the Vefiels at the lips of the wound and thence the velocity of the Blood increased in the other vefiels besides the pain of the nound may begsting mulating the vefsels to a more than broken.

Ordinary contraction, increases this more applied motion of the fluids, which we call a Fever. The heat is occasioned by the attrition of the Siguids and solids, and the therstby difsipation of part of the Liquids and the derimony of those that remain. Then the third or fourth day sooner of later Dus begins to appear on the wound. This Liquor is described by Reprocrates in his Dranot. by Colous Lib. 5. Cap. 26. \$20. Mus a thick white Lequor more Glubinous than Blood or Sanies, Smells little or none, and is of an equal consistance. This production of Dies is the Effect of the Inflammation at the lips of the wound and the fever, by which the Broken and Bruised Extremelies of the Vofsels are separateit, miseral with the befused Signids, and by the hear of the part concected into that homogeneous liquies Dies, which is just now deserbed! Ols pus forms the other symptons of Jeves Inflammation and pain aboute of quite go off because now the Obstructor

22 matter is ovacuated and the essentation again

If nothing hinder, the Extremities of the Vefsels, will by the impulse of their contained Lequors be propelled and strutched out, while March is an addition made to them from the Diquiels themselves, the betremities of these propapille which westing with one another form a Plexeds or network that sprouts our every where from the sticles towards the Centre and gradually fells up the wound; while the bestieneties of this network at the lips not being capable of stielching further, or hardning by compression forms ablush white membrane which insensibly as the wound fills up gradually covers it over and is called the Cleatrice.

Thus having eseamined the whole prozesses of a most simple wound which any of you may easily Observe to be brackly just let us likewise consider the consequences of wounds when other soft parts are wounded

wounded and first of an astery, Since a 23. muscle I mean the fleshy part of it is not allended with any Phenomena but what are already discoursed of . If it is a small artery not very near the heart that is quite out through its own for-- brackion will bring under the surrounding parts straiten its orifice and stop the offlier of its Liquids & therefore it will be no more than such a simple Hound as we have abready described, but if such an actory is not quite cut asunder, but only transverslig grened, out it runs very near abone, the it is quite diffecter, it may pour out avast quantity of blood, because while the fibres of the superior part by contracting recede from one another, these below we still hept form, & therefore the Orifice of the actory enlarges, hence we see & hear of so many Instances of Themourhages after a small wound, where we are very sure there is no large artery, as for Instance, a Gentleman of this town, a few years ago, aci; dentally had a small sharp Splinter of timber our into her fin . ger which with the point of a needle fe endeavoured to get out and appined to wound the actory near the point of the finger, upon we aconside orable Stemorrhage busued, and continued in spile of all the Astrongent and Caustu medicines that could be applied; the Satient one with hild at the same time and began to be a fraid the lofs of flood might have endangered her self and full, wherefore my

14. Jather who was the Surgeon employed resolved to enlarge the wound that he might come at the mouth of the witery with Li. equitive or medicines, and in order to that applied the Townequell that the flux of bled might not man his working not twisting the Ligature however till the drefsings were undone, when the supposed the usual flux would follow, but it was stops by a spungy Excrescence growing out of the Orifice; this was as troublesom as the former to cure, for it grows la ge (notweth. standing there were abundance of Escharotic Medicines apr filed) as to woor almost the whole foregrand of the uppermost Sout of the Forefinger; It was twice cut off, and still grow again nor was it enfirsly cured till after the Tutient's being Brought In the 19th Observal of Tulinus's first book of Observations, you may see what difficulty he had in stopping the bleeding of andr. tery in the Teeth; Consult likewise may's Orax. (hirurg: Rational. Décat. 3. Observat 4. Caper Observat. 22. Number In the first of the lases now supposed viz-where the artery is Observat. 72. not quite cut thro there is a probability even when it is closed theet an aneurism may ensue, because the quatrix is not so shorn, as the Coats of the Vefsels were, & therefore may yetto to the impulse of the blood, as Wiseman Book 3. Chap. 2. Obs. 3 of his Jur: e gery tells us happened to a Butcher in Westminster, who was

wounded in the Unterej behoist the Thumband forefinger. 25. Julpus Book 4. Obser: 11 gives us such another history .. If it is a large artery that is cut asunder the force of the blood sent from the heart will hinter the surreunding parts, or contract. him of the Velsels itself, to stop the Hux, but will occasion an Ha morrhage till the Patient die or faint away, which is a certain degree of death for a while, There needs no authors be Edduced to prove this the thing happens doily of which every Writer affords sufficient Instances; Then all the pouls to tohich The Branches of this actory were distributed, will be deprived of all sense, motion, and nowishment, and gradually sessouly gangrene, provided it is the only artery that is sent thether. The reason is plain, because the nerves unless flood be conveyed to any part, can have little effect, and when the Crecilation is stopped any where, that member may be looks upon as agrice of Lead flesh which of itself would soon corrupt, but still more when purthered on to it by the heat of the body; now his ban. agreene won't proceed so fast as if the blood had still accept to it, because the quickness of a Gangrene coming on is owing to the great Obstruction, distension of the Vefsels, Congestion of the Liquid and attrition of both. he Plenty of Instances are given by Buthors, as Hildan. Ent. 2. 76. 8. May's Decad. 5. Obs. 4. Wiseman Book 5 Chapt 2. but above all the Mustrious Boorhaave uses to mention one of afainly man near Leyden who was wounded with a knife,

26 in the inside of the armpit, by which the humeral actory was quite divided or cut thro' There was soon such a lop of Rood that the Saturd fainles, the mouth of the Vefsels . shrunk so far up and near the Trunk of the body, that there was no coming at it to stop it, wherefore the Surgeon applies thich compresses and Bandages leaving him without the least hopes of his recovery. He continued Several days without any Sensation, and but just as much motion as could make them observe him still alive, and in that time the tere had done what art could never have prefended to dosed up the mouth of the artery . The whole arm below grewally grew a piece of ri igio mummy, which he carried about with him, confirming what Ityporcales de Meribus says, That these parts, (speaking of the arms and Legs) when exhausted by the efflux of flood, become dryer and lefs.

If an liternal Coat of an artery happen to be wounded, while
the internal is entire, the force of the Bood striking against
that internal part of this land weakened will greatly against
dually dilate it while by the Compression which necessarily
this beginning tumous must suffer, its sides are rendered hurd
zer, the Criulation is still performed by it, and there fore the pulsation continues; it does not much able the Colour of the Shin,
but only makes it incline somewhat to redish by prefing to
the Blood contained in it may be forced into the artery again,
but sumound description, but as soon as the prefing force is
taken

laten off, it returns to its of state, the artery both bolow and 27. above becomes larger, consequently the neighbouring parts are comprehended. This kind of Swelling is called a true aneurism you may see examples of this hind of aneurism happening of les this manner, in several authors, particularly in Stilla: mus Pent. 3. Obser 44.8 de Gangrena et Spharela Pap. 4. Augsch Obs. anatom. Thirurg. Ofs. 2. tells us of a Brewar in Dorstill, upon flood letting in the Basilie Vein had the artery immediately below it thus wounded, and atrue aneurism following it . Wiseman Book 1. Phays. i6. Obs. 5. has just such another Story Phisiosophical Transact. nº 980. or morty's abridgement Part 2 Chap. 6. mr Cooper relates to the Royal Society the like case of a Boy about 8 years do. I Tis true that this part of the disease more frequently happens from internal lauses, as the Erosion of the loads by some aired matter or from Strains or Confusions; however, from any of These causes it sometimes grows to a productions bulk; In the memoires del acad. des Sciences Tob D. 1: mr Lettre gurs the report of a very large one in the neck, which brought on a Gangrene on the parts below . And in these same memoirs 1712 march 12. there is just such another history. See an act resunt of monstrous by ones in Ruysch Obs. 37 838. Hil: dan. Gent. 3. Obs. 42 and 43. Bonet. anat. Fract. Lib 4.

If the Couts of the artery be all perferated, and the aperture of the Teguments but smull, the blood insinuating itself be: : two een the Interstice of the muscles between the muscles and Teguments, and in to the Tunica Cellulosa it swells all the

parts, luns them red or blackish, spreads quickly, yield very little to prefure, and has lettle or no pulsation, and unless speedily remedied brings on a Gangeene and Merhification, on the member: This is the bastard anewism. In almost all the authors that treat of surgery you may find Examples of this, among the rest, Wiseman Book 1. Rap. 16 and Book 5. Rap 2. has several remarkable Observations of this sort The Veins, unless very large, when wounded, shut of themselves and when large afford no other Thanomera than has been obr = served in the arteries, with this difference, that the offusion of Hood is not so impehious, nor with a Saltus or Leaguing, but with an equal Stream; it is not of so floris a Colour, nor so then as that of the arteries. The Lymphatic Vefsels, which you know are nothing but Veins, when wounded send out a watery Liquor, which sometimes turning sharp crodes & frets the neighbouring parts; Because of the thin: ness of this Liquor and thinness of the Coats it is sometimes trous He enough to get that I choring stopt, the it is not attended with any other broublesome accident. This fase sometimes happens in flooding, which the Surgeon cannot help, whatever Rame he may suffer. an instance of this you have in may's Decar 2. Obs. 4. Vander Wielcent 2. Obs. 46. gives another which happened in his own practice, upon bloodletting, and tells us of two from Tolingius's Operat, Riving . 4th part Pap. 3. one of which examples is extremely plain and distinct, for solingius could plainly see the orifice of the Vefsels, the pouring out of the this watery humour & introduced his Orobo a little way into it whe he found a Valve stopping the farther progress of the Orobe

The Nervis when quite cut asunder contract themselves, & are 29. Orawn up under the surrounding parts, the other Branches that come of from the same Trunk wanting the apritance of that which is divided are more stretched, of therefore the parts to which they are distributed are pained, their Vefels contracted and Li: 2 quids obstructed, whilst the parts which before were served by the Nerve cut, (now that its Source the Brain is separates from is or The merulia Spinalis Jane deprived of its Sensation and nourish ? : ment. The Wound however comes near to a simple Wound If a Nerve happens only to be pricked or half cut thro; these fibres that remain unhurt, have the contractile force of the whole to sus. Lan, and therefore must be agricument sore, which will create pain that sometimes at first is not very violent, other whiles is fell very sharp . The small Vefiels that un along the membranes of the Nerves will be distructed; that soon is communicated to the neigh. : bouring Newes, and their Origin Sympathizes, from whence agreed train of accidents (and these the most fatal) very often attend these sorts of Wounds (the perhaps they may at first agrear very slight, and so are neglected) as Tumors, Jevers, Delirium, con vulsions, Inflummation, the entire lop of the Use of the Member, Gargrene, and even Death itself. There is commonly athen Scho! rous watery humour that orops out of the Wound, so aired as to destroy the ports, and create assaching pairs to the Satient, as Constris would do . Before I refer to authors for historical facts to confirm this, we'll first examine the Wounds of the Fondons and membranes, as they are generally attended with the same symp. forms, and authors confound them very much in their accounts.

If a Tendon is quite cut thro; by the contraction of its muscle its extremity nearest the museles is drawn up and his under the neighbouring parts, the use of that Muscle is lost, as Hyprocrates in his Course Franct. S. 5.40. has described, & it differs now thing from a Merve in the same condition. If a Tendon is only in part divided, it may for the same reasons. be attended with the accident mentioned in that of a herve, -The Membranous Wounds are much a him to the former. -Now, for Instance of the fatal consequence of these Worlds, con-Bull Stippoeral. de morb. vulgar. Lib. 7 S. 46. where he tells of two that died of awound of the foot . Hillan . Cent. Obs. 2. has five remarkable lases, particularly one of the fa: mous anatomist Spigellius, who lost his life by cutting his finger with a Broken glass. May's Decad 2. Obs. 1. gives two or three instances of this nature. Rumbner in his obs. med. Obs. 10. gives an account of the fatal consequences of the prick fatherole, Cosar magetus de varia Vulnerum curatione Lib. 1. Cap. 16 relates several such Cases. Toba Makreen Ofs. medic. Chirurg. Cap. 65. has three very remarkable -Examples of this kind, where the Satients from the prick of a fish bone in their fingers, near lost their lives; the parts gan ? agrened, and the whole armulierated. If your desire any firsthe confirmation of this look to aquapendent. Lib. 2. Pap XI Wiseman, Book 5 . Chap . 3 . Boribette Chirurg . Lib. 2. Cap. 8 This I think may suffer for the Diagnosis of Wounds, and the way how you come to distinguish all these sorts is easily de (source from what has been said. If the whole extent of the wounted

be seen and it be cleaned, the knowledge of the Structure of the 31. parts will lead you to it. If the wound is so deep or small that it is not at all exposed to your eye, examine in what per here the Patient was when he received the Wound, after what manner his antagonist was placed, how & with what force the blow was di rected, the nature and Shape of the Instrument wherewith it was given, thence you will find the Depth and Direction of the wound which with the knowledge of the parts will pretty near inform you. Likewise consider what bution is impreded or lesed, what is evacuated by the Wound and the symptoms attending it; from all which rightly understood you cannot but have a clear siagnosis, and we may therefore proceed to the Grognosis or Dredukon of what the event may be as for the knowledge of these Wounds which come to be dishinguished from the nature of the Instrument inflicting the wound, the force, and the magnitude of the wound itself, or accidents that happen along with it, there is no neces. sily for any particular consideration, since you alker discover them immedially by seeing or feeling, or are informed of them from other hands, or they don't appear for some time after -Nothing more distinguishes a regular, experienced, rational Surgeon, from an impiric or Quach, than this art of making a right Drognosis or Toutelling what the Event of diseases will be, This makes him to be looked on as a sort of Fronket, takes away all the reflections that Surgeons too too frequently incur, gives a great deal of Sahisfaction to the Satient & his friends, and engages them to follow his derections more exactly. And then you know how often Surgeons are obliged to make their report in

32. Criminal Cases, in which the shedding of innovent blood or save ing a murderer (both hainous frimes) depend; so that one cant take too much pains to be perfectly well arguainted with this Branch of his art. Styprocrates seems very sensible of this when he tetto us in his Book do Morb. Whoever would in the fure of Diseases ash proper questions, or answer distinctly to those that are proposed, and refute all Objections, ought to consider what are the fauses of diseases, then, whether they O be of long or short duration, whether deadly or not, whether the use of any member will be lost or not, which are doubt ful in their Succeps, which will, and which not &c. or as Pel. sus has it Lib. 5. Chap. 26. S. 1. But in Wounds the Physician above all things ought to know what wounds are incurable, what difficult and what easy to cure, for a prudent men ought rather not to touch one that cannot be saved than incur he blame of his death when it is owing to his fate, and then if there is a great deal of reason to fear the worst, yet the Case not quite desperate, he ought to fretel the danger to the Patient's friends, lest the disease baffle all his art whe be thought either ignorant or a roque. By this you see we are first to determine whether the Latent will live or not, whether we can cure him or not if the work is eased or difficult, long or short, if it will be a complete perfect Ruce, or only a partial one, and then what condition the Paleens will be in after it, what Infirmities or Diseases it may leave Now for knowing whether the Patient will live or die we must

see what wounds are deadly and what not; Deadly Wounds are cuther 33 (as we observed when we were upon the general Division of Wounds) such as cannot be weed by art, or bring certain inevitable ocally along with them, or alse such as, if left to themselves, would cer: : tainly hill the Patient, yet if timely afistance were made by a shiffel person may be wired; It is a very hard matter to beter; mine the first sort. There are such wonderful Stories handed down by authors of people escaping when there were no hopes of them by all apprearances. Sippourates in his first book ele morbes pronoun. us the down of all those that are wounded in the Brain Medula Spenalis, Liver, Diaphragm, Bladder or large Hood vefiels. This he confirms in he's Lib VI of aphorisms, 8.10. Doing the Heart, Small Intestines, and Stomach, and again repeats it in his Coaco Franot. S. 309. subjoining akewite large Wounds of the Lungs, or when more dir comes out by the Wound than the Tracker arterea, and transverse wounds of the large internal nerves . In this place the' he does not so postetively condemn them, for he begins with an almost always die . Celsus Leb. 5. Chap. 26 S. 2. agrees in the same, only specifies some of them, for he says it is the Basis of the Brain, the Forte of the Liver, the large arteries or veins about the Throat, numbering likewise wounds of the Sid. energy amongst them. But none go so methodically to work to determine this as the great Boerhaave. He divides them into five Classes, It are such as intercept the Course of the Liquidum Nervosum to the Heart, upon the action of which, vir the driving the blood into all the parts of the body, life depends: The Wounds that may do this are those of the Erebellum, from which the 8 pair of nerves that is sent to the heart take their Rise : and wounds

34. of the Brain that penetrale to the medulla Oblongata, and hurt it much, for the medullary Libres of this min these of the ferekellum, and after their Conjunction the 8th pair comes out, as wheweve the 5th and 6th directly proceed from the medulla oblingata; and there Nerves from the beginning of the Intercostal Nerves which prequent Ly join the Par vagum and is along with it distributed to those parts on which our vital action depends. I don't know one Instance of a Patient's being cines who was wounded in the ferebellum , the Corebrum itself has been frequently cured even Then when considerable quantilys of its Substance have been thrown out by the Wound: of which you may see Examples in a great many authors, as in Skinking other Medic in Jolio de Capite Obs. 19. 67. 68 and in Bohun de renunciat. vuln. part. prim. you'll find a vast variety collected from Hildan, Forrestus, mapa, fallop. Beranger, and a great many other Observators . There are two very remarkable Wounds of this part weed, one in Galen Lib. 8. Cap. 10. of a youth at Smyma in Tonia, where one of the anterior Ventriles of the Brain was open. and yet the Satient recovered . The other is Micolaus and Marka's Observation, and is related by Skinkius Cos. by de Capit. There the Wound penetraled as far as the Os Sphenoides, at least afterwards when the Probe was introduced into it, it het against the Bone, yet the young Gentleman, whose name was marius Gero, escaped . So that you see to is not without reason that there is a considerable Lesion of the medula Oblongata to make an inevitably deadly wound. The 2? Cause that may stop the course of the Spirits, is, a ruy ? 2 here of the flood vefels within the francum, & the Longement

of the flood in such a place, as it can't be evacuated by the 35. application of the Trepan or any other way, as when it is loged in the inferiour parts of the Shull, for either by its perpure on the medullary or Fibrils it will stop the course of their fluids in Them, or else corrupt them, as Hijpportates Aphor: Leb 5: 5.20 says, all Rood when evacualed into any Cavity will do. Il soon al. so destroys the Nervous Jibres, and renders them useles dee an Example in Julpius Lib . 8. Cap. 2. 43. In the first the Vefels were broke and the flood evacuated at the Cella Tursua without any fracture of the bones; in the Second Pase there was a consi: derable Fracture of the Or Sphenoides; both vies in a few days, and their Brain was beginning to corrupt. Consult also Bohn Prenun: Vuln. Det. 2. where are several like Cases; and Shinkins in fol. p. 24. Instances innumerable might begiven of flood catra vasaled in the superior part of the brain and weed by aperture of the Shull & Evacuation. But that you know is not at all our present Supposition. The There Case that may happen to intercept the Liquidum Nervo: sum as it goes to the Seart, is, deep wounds in the Superior parts of the medulla Spinalis, because that consists then entirely of the medulla Oblongato Cerebri and Cerebelli, & therefore these parts will behewise suffer, as also the Branches of the Intercestal herve, which it revewes in descending from the medulla spinalis will be remered useles; you know it is a common laperiment in anatomy and pequently practised, when you would have an Unimal soon capuse, to drive a Bodhin into thes part believes the Vertebre near the head by which the Creature immedially exprises . nay for the most part large wounds even in the lower parts of the medula Spinalis

36 prove mortal, as we learn from Julpius Dits. Lib. 3. Cap: 26 to Bohn Renun . Vuln . Sect. 1. & 2 Several instances are produces both from his own Observations and other authors. The last supposition to be made for hundering the heart's being sup; plied with the newous Juice necessary for its action is, the Dis. section or entirely culting the herves that supply it; The reason is plain, why Death should be the consequence of this but authors have not been sovery nue as to observe these small parts and therefore I don't remember to have read ciny Observations of it_ The D. Rufs of deadly wounds absolutely so is, those that allow apassage for the Rovo to flow out of the heart, that is, Whines that penetrate into its Cavities whether aurules a Ventrules for the continual necessary action of the heart hinders their so space. edy reunion, while in the mean time if either the blood can get out of the Serviardum, the Datient miss tow by the Stamothage, or if the flood is only conewater into the Dericard wim & get no fur . They, by its Compression it would soon put on end to the metion of the heart, which is conformed by all the Observators, as for: restus. Obs. Phirurg. Lit . 5. 065. 2. Shinhuis Obs. mesici, Tol. p. 275 86 . 208, 209, & 210. and Bohn Renun. Wiln S. 2. relates agreat number from Bartholine; Beringer Miscell Curios. Diemer broth, Bonet, &c. It is reckened next to a Miracle by all these Gentlemen, when the person so wounded lives a few hours, or is able afterwards to ster. May he goes further, and Endewours to prove by Examples from Didus Didus, Pary, Hor. Thus, Henrius Colhoers & wounds in the heart, the not pener trating into its favily, deadly. The 30 Rap of these Wounds that inevitably bring death arein

such parts where there are large topels cut that pour out their flood, and there is no coming at them to sayyely remedes such as large wounds of the Lungs, thro' which the asteria Sulmona; ilis is distributed, and therefore its large branches must then suffer · Examples of this are afforded in Finis Respon med. 16 in Bohn Genun Vuln. I. 2. There are several it's time, and there might be agreat many more where the Satient escaped as in Jugues Chirung. Lib. 4. Caps. 16. and in Scalpart vand Wiel Obs . med . Cent r. Obs . 30 &31. Shink . Obs . med. 278 Jol. p. 270. Jol. p. 279, 278 & 301. Nay it has often happend that considerable pieces of the Substance of the Lungs how been cut off, and the Satient recovered as in Fillsun . Cent 2. Obs. 32. Shink. Obs. med. 279 folio page Julpuis Lib 2. Mr. 17. But then the Vepels were either hed or Caustized, or some other means used to storp the Stornorrhage, the peals being exposed to sight. Large Wounds of the Liver are much akin to these of the Lungs for the same reason vir . The large Brunches of the Vener Sortarum and fourd, and have as ill consequences, as in Time Respon Med. 28. Think . de Vuln . Secor. Obs . 7. Jol- p. 414 . Bohn Renun . Vuln . S. 2. Cap. A. Other small coounds of this part may be and are frequently ture, as you may see in the same (hours . & in Skink The Spleen has the largest arlengs in respect of its own buth, be: Howed on it, of any part of the Body, and thro its middle nens a large Sinus Venosus, and therefore is to be considered the same way. Consult Bohn - If the refsels of it be fied, this viscus may becal quite away, as has been frequently performed and forest Lib b.

This . Thirung . Obs . 4 . relates the fuce of me who was wounded in This place, and Shink fol page 127 . Ourman Thering Curios! Lib. 2. Shap. 2. The Kidneys may be rechoned in the same Clap, because of their large emulgent Vefels, and then the Urine running out would hinder their Coalition however, small the wound even with less of Substance have been wind as you muy see in Fallop. de Vuln. in Ren. Phey. 4. Forrestus and several thirs. a very remarkable Case is handed down to us in the Phillosophs Transact N. 223. Lothrops abridgment Vol. 3. p. 188. ofone me Stobison the English Consul at Venue, who has a Stone cut out of his Kinney by Domen de March Brofesor of medi une at Jadua, and was cured by him. If the Jancreatic Vefels are cut, covered of thes part are deadly, otherwise not. Along the mesentery there are a great number of artories that go to the Intestines, and Veins that return the flood from them to gether with Lacteal Vefels dispersed, by the culting of which south un effusion of Liquids may ensue as soon to hell the Satient. Bohn relates three remarkable examples of this . The Stomuch and Intestines have very lunge blow veficls, & in great number, therefore come under the same head, but wounds of those parts prove of ill consequence upon other accounts also which we shall have orcusion to mention, and therefore refer giving Examples till then . The Womb is naturally little when not distended then its flood Ve fels are contracted, and wrapt close together, therefore the welling of them is not very dangerous, but when the strenker out as in bu

belly o Women, the Vepels gradually enlarge, & are explicated that a sufficient quantity of nowishment may be conveyed to the fatus, so that these which before would not asmit of a hog's bristle wall now receive a quill, and therefore if wounded would soon dispatch one by loss of blood . For if upon the Separation of a part of the Slaventw, such an Hamorrhage ensues as we see frequently happen, howmuch rather to when larger Vefsels are opened here are considerable Branches of the internal I lieu that run along the sides of the bladder, and are distribuled thro'it. These of opened cannot by any art be stopt, as sometimes happens in the operation of Litholomy, when the stone is very large, and lacerates the nech of the Rador, such a flux of Rood ensues, that the Satient expires in the Operators hands . See this proved by Examples in Bohn Seet 2 Chays . 4. Other wounds of the Rusder one frequently cured, else the higher approvates has never been verticed on, which however has been performed with good Succeps, and a vast many Observators may be aroused as Julyh Lib. 4. Chap. 30. Falley. de Vulner in gener Cap. 4. Skinh Joh p. 502 . now since Wounds of these arterys, which are but inconsiderable in respect of their Trunk, bring such certain destruction, what can we capatrof the dor. : to itself, when it suffers, certainly we cannot entertain the least hopes, or of its nearest or largest transhes are opened, to which we can't have accep, as the Subclavian or facotides are absolutely deadly because if it is in the middle of the neck, there is a popisitily of lying them, as is frequently with Success fore on Dogs, but of it is near the Trunk of the body or head, there is no imaginary possibility of escaping, ample, of any one escaping after the cutting of these arteries; this

true there is me norable history that the bained Boerhaave uses to give of a young Gentleman who was run the with a swon Theren the fourth Vertebra of the Mech, whereby the Vertebral are stery was cut. He lived for g or io days either in a continual Syncope or Steen whoop. Any other large branch of the dorta to which there is no auch will prove just as fatal as any of these mentioned . 2. G. The Iliach, Hypogastrie &. The large Veins are just as but as the two Cavas Subclavain internal Sugulard Stewes, Vena Sortarum ge, since they will pour out more blood than the Patient can bear, without the loss of his life; If you would have this proved, consult Bohn de renun, vilo Jecl. Ima & 200 Cap. 2. and Durman Chirung Prinos . Sib 2. Byro 2 The 4th Class that necessarily pears readly are those that stop Respiration entirely, without which you know no creative can live This may happen several ways, if the Trachea asteria is quite cut thro near the Courcila, and the underpart of it is drawn down by its own contractile force, and Weight of the Lungs, under the upper part of the Sternum, so that there is no possibility of bringing the divided ends together again, if it is divided near the middle of the Throat, it is casily enough cured . I remember to have seen an instance of this in one Sawing , who cut his own Throat with a penknife, so that no air paper by his mouth but all by the aruns the divided parts were brought together and stituted by my father and the wordened wired . Tulph Lib . y. Chays . bo has exactly such another lase, Large Wounds of its branches in the Lungs will have as but of feels, thus being also ausmpanied with the culting of the large Vefiels

Vehels, which we have spoke to already, only recollect what I have 41. already cited from Supportat. Coace Franct. S. 509 where he esteems among deadly wounds those of the Lungs where more air comes out by the Wound than by the Lacyna. If large apertures are made into both the Cavitys of the Thorace at once, the external dir rushing in will balance that within the Lungs, consequently leave them to their own contractile force, by which they will collepse, straiten the floor Vefsels, kinder the papage of the flood, and so very soon suforate the Patient. Vesas lies used to domonstrate thes in his anatomical Lectures by open. ing first one side of the Thorax of a sow, which when hurt is a very nowy creature, that Lobe of the Lungs minimitely left of playing, then doing the same by the other side, it immedially lost ils voice, and Som after dies. But if there was one ready at hand to shut up the Orifices, and such out the air this mischief might be prevented . To this collapsing of the Lungs by the air getting into both sides of the Thomas it is that in the acta theo. Berlin Vol 2. S.4. hist. 7. the Physisians attributed the death of a flotheir, who was wounded with a cultury Swood between the 1st and 2º Ail; the wound penetrates thro the Thymus and me. = diastinum, but no other of the contain's Usiceno or Vefiels or nerves were hurt, and not above Zij of stood lost. Large Wounds in the fleshy part of the Diophragm (which is abstrately necessary jos resperation and one of the principal In. Istraments ofit) even in one side, but still more if on both sides of the med wastinum, will stop the receprocal admission Jeagustion of our mile the Lungs, & put an end to life, both because its action

42 will be hindered, & the Viscera of the abomen which are always ex: posed to o considerable prefuee, insinuale themselves with such wounds and so into the favily of the Thorax, as Sarey Lib. 9. Cap. 30. Sen. nest. Prac. Lib. 2 Cap. 15. and several other relate to have seen Small wounds indeed of this muscle have prequently been wired, as you'll find in Diemerbrock anat. Corp. human. Lib 2. Cap. 3-Shink . Obs . seed . 257 fol p. 294 . The Tendinous part of this muscles is rechoned incurable by all, for there is such an In. tertexture and Complication of Fibres there, and necessary conti; enual motion, that the Solution of them will certainly bringon all the Symptoms of a preched nerve or Tendon, consequently it will be rendered altogether unft for the use for which it was designed. I don't know one exception in the law The difees which or Division of the Phrenich News will lehourse entirely Destroy the action of the part, as cinatomists pequently experience The last Cap of Wounds which art cannot remedy, but in exitubly occasion the death of the wounded person are these that Deprive the body of its due hourishment, by timbering the Phyle to be prepared of conveyed to and much with the maps of Read. Les us take them in order according to the papage of the alimins, First, the entire or completed dissertion of the asophagus or fula, by which the food paper from the mouth to the Stomach, if this happens, the parts receive from one another, the Canal is discon. finued, it les so deep and surrounded with so many Good ves, sels and nerves, that there is no coming at it, wherefore the Patient must parish: But of it is not quite separated the one from the other the it be opened, it may and has been used Witness shink & Digrais aled by Bohn, & I have seen it may self

self in that man I mentioned who cut his own Throat with a pen: 43 : hnife; his aliment pefore the wound was sitched came out of it. and he in great hazard to be sufficialed by its falling into the muchoa Arberia; assoon as he was dreped up that ceased: Which I think may be accounted for thus . When the Wound was inflicted a soon as The Trachea arteria was out asunder it contracted and fell dram. the wound therefore immediately given after that to the Gula? would not agree to that of the Wind year when it was drawn up again, so that the back part of this Panal closed up the wound in the doophagus till nature dis something for the reunion of this divided part, She being in the medatime as: nature as might Assist the Consolidation or making up what was wanting . If the Gullet is wounded , The not entirely divided in its papage thro the Thoras, his for the most part of the worst consequence), as you may bearn from Bonetus Ined. 061. 12. Large Wounds of the Stomach, by allowing the aliment to perf out either into the lavily of the absomen or otherwise, de. : prive the body of its Nourishment, the the most danger is in the Mum. ber of the large blood ve fels and nerves that are distributed upon it, which brings sudden death to the person who has the mistor : : sune to be wounded, as we learn from Approximates de morb. vuly. Lib. 5. \$ 98. 99. Forrest. Lib 6. Obs. (hirung. 5. Timeri Aespens medic. 19, and several other instances produced by Bohn Sect. 2 Cap. 14. It is next to a miracle what Brollies in his Basilie Chymic relates, and Sennert Lib. 5. part A. Cap. 3. trans. zcribes from him, of a fountry meen, whose name was Matthews,

44 who us'd to conceal a knife in his throat, so that none would obsence it, then after drinking alfafs of common ale which was his hire he pulled it out again, however, unlushely at length swallowed it down to his stomath, and after some weeks it was cut out thence and the man cured. Diemer booch anat. Corp. human. Lib 1. Cap. 16 from Tothis and Stripinus gives us exactly such another history, and the hnife kept among the anatomy Chamber Charities at Loyen. Several indeed have been cured of small wounds there as Sennertus in the place above cited relates from Julius alexandrinus, & Bohn cites from Galen, Fallog. Glendrop. & Thinh F. p. 348 from Cornose and vega, cotheus Stidesus or which might well enough be, since in that case the contraction of the musular Couts of The Stomach would help to bring the parts together again -The small Intestines near the Stomach where are few or no Lauteal vefsels yet gone off, if entirely cut asunder, will have the same offers, in preventing any nousishment going to be muced with the maje of blood, therefore are attended with as fatal consequences, as Hypour de Morb. Vulg. Lib 5. S. 21. Consult Bohn and you'll find agreet number of authentic authors produced for it . Small Wounds may be cived, year where the Intestinum Ilium has been quite cut thro; for we read Observations of the centients living a long home after the superior part of the Intestine being sech red at the aperture of the Teguments, can all the part of the aliment that come that far down everualed there; there being as much Chyle taken up by the Leuteul vefsels from the guts above that, as soved the Satient as in 1681 and 1712. The only parts that remain now, which can (when destroyed) deprive the body of Bourishment, are , the Receptaculum Chyli, and the Dutus

Thoracious Decquetanus . Lower's Expert of introducing his finger between the ribs of a dog and his nail cutting the Duthis Thoracious. whereupon the creature languished for some days and feed of an atrophia while the Cavity of the Thorase was full of Phylous Liquor, plainly ex nough spinces what may be expected . These parts are so small & so ill to be found in adead body, that it has sels on been adverted what was the occasion of the Patient's death in this case, but it was rather ut tributed to a Hydroges Sectoris . Havever, Bohn from Lilegelat , tells us a story of one that was wounded in the Duetes Thoracious; at least the liquor that arme out of the Mound and the Matter that followed made it appear to be so; This Gentleman was very near cured, but by except relapsed and Tied . Bohn imagines it to have been only opened after ils division, and before its reunion, consequently one half of it hust_ By this time we have got over all the wounds that stop the action of the parts absolutely necessary for life, viz. the Supply of animal Suists, the Circulation of the blood the recyrrocal alternate motion of the Lunys and the recruiting our solids and fluids by an addition of new malter, Now we come to the 2. Sort of dealy wounds, or those that yleft to themselves, or without any assistance offered them, must inevitably hill the person wounded but if the Rules which our lost prescribes were duely put in practice, might be cured; such as Wounds of the Head. where the Evamation of the Blood or depression of the Skiell, the act : ons of the Brain are hindered, and of no means are used for the relief of the Artient, would certainly kill him, yet by the application of the Trepan, these lauses might be removed; When we come to treat of words of the Head, Instances enough shall be produced 2. Wounds of any large arteries or Veins, which the Surgeon can come at shall be heleafter descoursed to

46. 3. Those of the Viscera to which both hands and medicines can be applied, for example, if by an wound of a cutting Instrument of the ab. : domen, the guest were hurt, and the wounded Intestine appeared, as the internal Orifice by sowing it up it might be wered, whilst if that has not been done, the aliment or Jaces getting out by it would have proved fatal. 4. When matter, whether blood, Sus, Water, or whatever, is pourse forth into any favity, where if it was allowed to lodge, is would infallibly our sion death, but may be evacuated with safety, as the operation of the Trepan, Empyemas Paracenteses ye. sufficiently teach us. To much for counts which of themselves are deadly, we thought come real to the not decidly of themselves, but that may become so by some of the following lauses. I Hood be coassialed in any part, especially when near to any purt necessary for left, and this matter be not evacuated the Satient may Die by the matter being taken into the mass of blood, & occasioning a heche fever, a Phthisis In when otherwise there was no great danger in it . Valeriola Obs. 7. Lib. A. tells of a young Gentleman who Seed in such a condition . after receiving four wounds, two of which has penetrated into the Thorax; When his body was opened, there was a great collection of matter within that lavily . Itolpius Lib . 2 Cap 26. relates such another story of one wounded in the Liver but slightly, who was cast into a some Tever and died emaciated, his Liver was found ulcerated . Forrest . Obs . Chirurg . Lib . b - Obs . 3 . confirms this, and it very prequently happens after wounds of the Head, as Bohun very well avouches; May upon a large abscept, or wounds, where here was a very plentiful Suppuration, I have frequently seen the same fall out _____

If exceps is committee in the Patients way of Living, or what is commonly 47. lade the six Homnaturals, viz. 1. The dir, 2. Food. 3 Motion & Rest. 4. Dispo: : silion of the mine . 5 . The Secretions & Frections . 6 . Sleep & Wahing . How, I say, if there he not used in a moderate way, the Patient may suffer by it. as for Example, if the air be too hot or was, his food too plentiful or tiens, if he uses violent motion, if he gives way to fear, anger, or any violent pufsion if strong purgatives were given him, or if his Usine be entirely suppressed, if he sleep like on Settingie, or could sleep none. These are only samples of the many other cases that might be made, and it would be in vous to run thro historical proof of them all, let one or two serve. In the year 1715, I remember to have seen at Stirling a tolsier of montagues Regiment who was wounded in the foot, besides several other Wounds he had in the head; he had been stript and left in the field all night, which was frosty and very cold, The Wounds which were but slight were along time in healing, and his toes of the hurt foot all montified, so that he lost the most part of Them . another Soldier of the same Regiment had one of the temporal Arteries cut with a broad sword, and part of the Sarietal bonestoys of . In Brown the Surgeon at every deelsing stops the Stamorhage, which he in a very lettle time after always renewed by orinking of Spirits which his wife secretly conveyed to him, till in some days he died. In the acta medica Berolin . Vol. 2. Sect. 3. Hist. 1. There is the case of a Lotsier mentioned, who was wounded with a witing In; : strument in the Firehead; he went about undrefed for four days, even then the surgeon of the Hospital to which he was brought saw no deadly righ, but at no rate could be be heps from going abroad, and living after les own fashion, which kill him the 11th day, for which reasons the Physicians gave their opinion after the body was opened, that the

18 wound was not deady, in order to acquit the person that wounded The Reglect or mistake of the Surgeon may preve of as great danger as any of them . This too too often experience coinces . I have seen by two tight a bandage the whole arm in hazard of a mortification, and by the great Sugarration that ensued the Satient lost his life . Boer haave uses to tell us of a young Gentlemun who was wounded in the Pubital artery, the surgeon applied Caushe med and strong Comprepion by which the neighbouring parts were destroyed, and the miss de acting of the fore arm enoded and opened by the flux of blood, from which the Datient dies - and he tells us of another who had the earlery that runs between the Tibia and Tibula cut; the Surgeon thought by bandages and compression to have stopt it. These he applied very think, but before his return, the Patient Bie to death, whereas in both these cases, has the Tournequet been opplied, the wound dilated, and arter ing tred, there had not been the least of anger. Sometimes the Patient is of such a bid habit of body, and ill state of health, that very simple wounds may be attended with very fatal Consequences; for Example, if he is Stydropic, especially of of longuen. +muence, and his strength beginning to fail, the bis vite so weak, and the Liquids so then, that before a wound can be brought to unite, the whole substance of hes body (as the common saying is) will come out at it, and he die . The same may be said if he labours under a Phthisis Pulmonalis or an abscept of the Liver . Now all these sorts of wounds, except these mentioned, are not ofso is consequences as to deprive the Fatient of his Life, yet some are soil. The post method of drawing a right Grognostie will be from the

nature of the wound itself, in which its figure is first to be considered .49 a straight one is better their a crooked or angular, because its lips we more easily brought together and hept united. a little and superficial one does not take so much time and labour as a large and deep one, and of these the worst are where there is lofs of Substance. Where the mat, ter can have better accept to be evacuated it is easier cured than other. wise. As for Instance, of the Orifice is in the most degending part the wound will head sooner than if it was in the superior -The 2. manner of judging is , from the nature of the place affected . The nearer it is to the parts whose wounds are rechoned deadly, so much the worse, et e contra . Where arterys, Jendons, novoes, membranes are hurt, the Irognosis is plain from the history of wounds of these parts. If it is a large to hel that is opened, if the nerve, Tenson, or Membrane is pruhed, or only in part cut, it is much worse than of it were only asmall Vefsel or these were quite net theo' zentrely divided: Hence wounds of the Soints are always rechoned it to cure, because of the number of these parts there found, and constant supply of that Thin glitich humour for lubricating them. If an Wound is in apart whose constant motion is absolutely necessary, E. G. in the Shora, if is not to soon united as if it were otherwise. Thirdly, We are to have a regard to the other discounts & Symptons that may go along with them , as the lodging of extraneous bodies , poisons , confusions, breaking of bones, Hamorrhage, pain, inflammation, Toha: relus, Fever, comiting, Delirium, Syncope, Convulsions, Palsy, apoplary be awaring as they are attended with fewer or more of these encidents, and stere in a greater or leper degree, so much the more easy speedy Pure, or more dangerous and fatal spue, We are next to consider the condition of our Satient, whether of or

50 young, man or Woman, whether otherwise healthful or not, what dis. case he lations under whether given to Except or not; for a young health? buf lover, moderate person is much easier cure than one that is oth, in fam, decrepit, or emaciate, or where Constitution is broke, who labours under a distemper which of itself might bring him to his growe, or that by immoderate living would frustrate all the Care and medicines that could be given and taken. and last ofall, we are to have respect to the leason of the year, for the seaching heals of Summer are very to bring on an inflammation, fever, and their Consequences, with a very large Suppuration and curinony in the matter, whole the nigging frosts of Winter contract the Vefices, and coagulate the Liquids, whence numbers and mortification -This I think is all that can be said of the wounds themselves, of which Celsus Let . 5. Cajs . 26. and Jennes Lib . 5 Court 4. de Prognesticis Vilnerum have treated more at large. The only thing now in the Drogue 11's is, to forelell what inconveniency the Satient may labour under af ter the wound is filled up. This may be easily collected from what has already been discoursed. a large artiry quite cut asunder leaves an atrophia in the parts which it supplied, a nowe thus affected, an Immobility and want of Sensation; a Tendon, the loss of that motion which depends on the action of the Muscle, The lower peut of the Medulla Spinalis (if ever a cure of it is made) a palsy in the inferior parts, a very large Supperation in a big wound, a Tabes, hethe fever, and Consumption, a vast loss of blood makes a hazard of a Dropsy, for the Sois This I become to weak that they are not able to compress the new Ingesta, or perform what the antients called the second Concortion, but leave them, or come upon it, a Philisis Sulmonalis may follow, if it is in any viscus

Visites furnished with large blood vefsels, E. G. the Liver, an iller in 51. that part may ensue, thence a heetie fever; It would be in vain to go thro' all the vain Suppositions that may be made, since any body that considers what's already said and is acquainted with the Struct ture of the parts, may without any difficulty judge of them. The Indications for wiring Wounds are 1. To cleanse them of all flood, confused flesh, or any extraneous to: dies, and to take away all other accounts or Symptoms which might hinder the retinion . Since I have rechoned these extrane; ous Forces among the audents happening to Wounds, I shall re for the speaking any thing of them, till I come on the subject of lieudents. 2. To supply the loss of any part by the growing up of new matter the to that which is lest. This they call woring of wounds by Sysarw. 1 sis, or by the second Intention. 3. To unite the separated parts, & presour them thus united, this they name unent of wounds by Symphesis, or the first Intention 1. To cover it over with a skin, as like as can be to the former, his they sile licatrozing. Authors generally begin the description of the xunng of Wounds by teaching us the first Intention or Symphesis; but if we consider that in this Case there is always a Supply of some new matter, and that there is agreater apparatus in the dropsing we must own the second intention recepany to be understood before we can be well exquired with the others. The Syparcosis is performed (as I have already hinter to your the Sescription of the Phanomens that appear in a simple wound from prot to last) by the Elenyation and stockhing out of the vehels, and

52 addition of new matter from the Liquids, which must be in a good con dition and well proportioned to one another, else the Intertexture of the blood vefsels which forms the network at the bottom of the wound will other be too serimply mude or grow up too lucuriantly. The first thin we are to do to afsist nature in this affair, is, to order a right Diet. Supportates de afect orders capresly a spore diet. In his book de Vuln. gives the virution, Little meat and Water for drink is fit for all Ulars, but more for recent than of ones; as also whenever un inflummation is feared or already come, or any hazard of any thing being vitiales, or when a Convelsion is threaten'd, or when the belly, 1. 2. one of the great lavities is wounded, but muft of all, the head or thigh or any part be fractured, he were this for their Drink · Celsus Lib . 5 · Cap. 26 . S. 25 . applies there sume Directions to wounds, for suy, he, if it is a large wound, he ought to abetain as much as his strength will allow him from meat, hell one the Inflummation is over, but let him drink warm Water to his Therist; but of in the Summer, and there is neither food non pain, he may be allowed cots water; By which you're alow diet is recon mended and containly ought to be of sowed, because a high diet by increasing the velocity of the blood is ready to bring on a fever, Infan mation ye and felsus on the same place ales says, it ought to be meat of good Juice, by which he means, that which may easily d. gest, and be readily assimilated, and become like to the Lyun of the Body, not of a glutinous nature, 10 as to make our humour too visuo; nor custly turning putred, consequently aired, which mig bring on Supposentions, Inflammations by. Therefore let it be pregione in weak broths . Il you'll consult Fallop de Vuln Cap . 18 as

Boerhauve's aphonisms, 192. youll so what are most convenient & 53. in what form . I shall give you a few particulars, and refereque to duthors for the rest where you may pich and chuse . ___ Let the Patients drink be Emulsions of the cold Sees, or broth of frabs, a Milk, or milk and water. For his Most, chicken both & head. Water being made pleasant with the Squeeze of a Lemon & a little Sus gur, boiles or roster fruits, boiles Popherbs, such as Lettuce , Spinage, Bests . It would be avery ite task to run over all the little things that the kitchen affords, since every or woman in Town (if you'll only tell them what is to be shunned) will muster up a hundred of found dishes in a true; felous's rule was most of good Juice thurning every thing that is aired . The reason is plain, busine they stimulate to much, that they would soon rause Inflammate: sons, Teven &c. Under this Dinomination are comprehended all Salt things , Spiceries , shorp Insperients, all formente Liques, as all Wines n Spirits orawn from them . -We have already coursoned against things that easily turn pulo a may occasion pulse faction, such as Flesh, Fish, strong boths Albalescent horts , E. G. Crefus , Radisher , mustars &c and also against heavy meats or ill to digest, as all hung related meat, Fat things &c. because when Mahne is weakned they can't be suf. priently concoiled or prepared so as to afford good Leques for the Jupplying of what is wanting; however in some cases we are not to strick to a rigidity to these rules, for soe care always to consider the state and condition of the Sahint, if this a weak of person or one that is frint with loss of flood, there is a necessity of gioging them some things to support them . This Celsus Lit 5. Cap. 26 \$ 25 . takes notice)

54 takes notice of, for after he has observed a space diet, but say he there is no rule in this without exception for we are always to have aregard to the strength of the Satient's body, his weakness may offige us to opic him meat insucially, sparingly however, and in small quantity, as much as can sustain him and many where roise who seem at Death's door by the loss of flood are to be refreshed with wine, which otherwise is most huntful to wounds. and \$30. after consemning its use, but, says he, if it is a sujur peial word wine is safer, and may, if not too cold in given in great quantities, help the filling up of the sodand. — The Season of the year is likewise to be considered. This felous observes, when he lells us, that the Patient is to drink warm water in Winter and in Summer may be allowed cots. Und these things that are courtened against have always a worse effect in Summer than in Winter, when prequently some of them are newpary to promote a brisher circulation, which otherwise would turn very languis. We are likewise to have regard always to the Satients former way of living, for you know the common Process, Eustom is a secons nature, and it is certainly so that when a person has been accustom ed to a certain way of liging, sudden changes from it prove of very Faid consequences to kim. This the late won juies very ensent prof of . The English Totsiers live mostly of fleshes , whilst the suith live most on herbs and roots, and in their different hospitals when wounded wore treated accordingly . But whonever the English were? cannel into the bestit hospitals, or the Dutch Soldiers lodged amoning the English, as frequently enough happened, rollow any of those wing were taken of their ordinary way of living, escaped, but all died

The former turned faint and languished with the low dies of Vegetables, 55 while the last fell into Yevers &c. by the English high feeling . Wiseman 13.3. C. 1. confirms this by several instances, penticularly of one Bonund Brown, a Gentleman's Servant, who was used to drink vast quantities of Wine; he was but in the back of the hand by a Monkey and so long as he was kept from think he always exew wome and worse, but after he was allowed it, mended daily . Bonet anat. Pract. Lib. 4. Sect. 8. Obs. 26. tells us of a Genman Genlleman who by being confined to broths and denied the use of Wine en lively by the surgeons in Paris, died of award in the Stip , which by all the symptoms before his death and examination after it, appeared to be perfectly simple. Hol long ago a Tovernors Cook in Sown (these sort of people you know are much used to toppling I had the cartilaginous part of his nose very near cut off by his follow dervant his name was Daniel milean: He had lost so much flood before I saw him that he was quite faint . When I statched the Hound I ordered Broths & Berries with some soine: However this did not please kim, and he continued faintish with pain in the wound and at last began to be troubled with a Dearches, hell his wife goverim some draughts of twopenny and advanto comfort him, upon which the symptoms abates and inten days he was wired. The last thing we are to regard in ordering the Satists diet is the other discuses he labour under, or what attend the wound . For xapple, if he is fevorish, the lower the diet somul the better. if he is Andropie, strongthening food will be more proper, where, fore according to the different lauses, there may has many different

different Regimens prescribes. The same may be said of the interanal medicines which require just a great variety, the he most part of authors without any regard to the different Constitutions of people, order afew, what they call, vulnerary Decortions, Elec tranies &c. which they peopose as fet in all cases, when in the mean time, in order to prescribe anight here, a through knowledge of almost all the diseases that can happen, by of the whole male: cria medua is most requisite. Whence you see the necessity of of what I affirmed at first, that a Surgeon shows likewise un, Gorstand the the other parts of medicine -Now logo through all the Suppositions that may be made would be to give a whole System of medicine & ransach the whole Farra? 2 go of medicaments, which is not at all my present purpose, only let me refer you to the Classes which Boor have makes in 198 aprionsm and the list and Formulas you may find in his . M. M. or if you would Still enquire further, consult fumen Obs. 3. 6. 41. Wesoman-13.5 Claudin. de Ingress. ad infirmos Lib. Pap. 31. Barbett Phirurg. Lib. 2. Cap. 8. Bounger de Fractura fran. Cap. 31. We come next to consider the other nonnaturals, in the management of which there is no such variety, and First, The air ought to ke my with a temperate heat without any ill Smelling Vagours conveyed along with it for Moist-air is ready to reaston Pheums, Coughs, and if too hot as in Summer, it causes large Suppurations with acris matter, and a lendency to Inflammation, where fore we ought to cool the Satient's Chamber by opening the windows where a gentle Breeze blows, by placing pitchers of Water with Slants that when cut easily such it rep, and some of it out again with

an aromatic Smell, as the Boultne, Mint yo of it is too wo 57. are to remery it by fire. The putrid it Smells conveyed along with the this proceed always from some corrupted thing, and may be the occasion of several diseases, therefore the Ramber should rather be perfumed with a little demake Smell such as the Patient pleases best . It is a Rule handed down by the best Fraction eners that we should never give strong Purgatives to a wound. co person, bucuse they simulate the Solids, raise a lettle fever and thin the fields too much, but at the same time we are not to allow the Patient to be bound in his belly, because the faces alvince by the heat of the body tuen more and more putito, and communicate some of it to the maps of flood, we are therefre by Laxatives, whether given by the mouth or in form of Glysters, to prevent this, as Aippour. de Effect expressey directs; these Me . Decines that soften and lower the faces called Emollients & Laxatives, as fat broths, expressed Oils &c with those that have a little stimulus along with Them, serve only for discharg . ing the storeus and are called E KOMOSOTIKA. The most in practice of these are Prunes, Papia, manna, Tamarinds, Sy trup of pale Roses, ahuband bye. of which in Boerhaave M.M. you may see a list with their several Doses, which are always to be proportioned to the age and strongth of the Salient But are these set down for an ordinary man, I mean, a middle aged strong Nothing, you know, refreshes a man more than Sleep, & the want of it is the greatest fatigue that own be, and of itself ready to bring on several diseases; Now, in wounds one of the greatest reasons of want of steep is Pain, wherefore by andyhe medicines,

these may be of different kinds according to the lauses of pain, which are different, we cannot condessend on those till once we best of the lauses of pain, which we shall do afterwards when we come to the accidents and symptoms that frequently accompany wounds. The next way that we have of procuring sleeps is, by such medicines as do not indeed remove the lause of Pain but lull our senses so as not to be sensible of it such are called starcotic, Soppies and Opium one the only two that we know to have this effect, which may be prepared a great many ways and given in different forms as is abundantly evident to any who look into Disponsatories, and is so commonly known that I think it newless to present you with any Formula.

All ruifling passions, as anger, Grief, Joy &c are to be avoided and the Portient hept as free from lare and as in good humour as can be, for our body always sympathizes. Unconfestable Examples prove the bad effects of these passions. Hitan Cent 1. Obs. 23 lells us of two who were wounded in the hand, and by laughing at a merry tate raises a terrible pair in the Wound, and theo' the whole arm, insomuch that they were affect of falling into Convulsions. In his Obs. 17. Cent 1. he relates the Pase of a youth, who after a wound in the head and fracture of the Shull was in a fair way of recovery, but being provoked to anger immediatly turned feverish and threnetie, and died four days of. ter. Obs. 18. informs us of a man whose temporal artery was cut, and by medicines applied the Hamorrhage for five days was stopt, when by some of his friends he was put into agreat anger

by which the artery burst out ablooding again and with great 59 difficulty was stopt. All acts of Venery are to be shunned, for these increase the Ercula tion muchas the time, and enervale it afterwards. Hills . ous . g. Cent. 1. proves the ill effects of this by the example of a young man, who was wounded in the head with a fracture in his shull after five weeks when the wound was almost cicatrised, by lying with his miss, fell into a fever and died. Boerhaave telates just such another lase that happened at Leyden - Hildan. Ols. 22, confirms it still further by the history of a young Gentleman whose left hand was cut off, and the stump almost skinned over, who by such mismanagement threw himself into a fever, Delirium, Convulsions, and died . _ ambrose Parey in his Book. 16. Chap. 14. asures us that he has seen agreat many instances of this necture. _ Berengar. de Fractur. fran. Cap. 21 takes a deal of pains to enjoyn this, and Cap. 13 reckens it a miraile and by the particular direction of god that a Datrent of his it: : covered, who was wounded very ill in the head, and has been base with a where every day or every other day from the beginning of the lure. -All possible Quiet and Rest must be recommended, as Elsus Lib 6. Cap. 26. S. 28 says, Rest is one excellent medicine; for motion & Walking is not fit for people but in health, yet this less dange. : rous for people wounded in the Head and corms, than for those wounded in the lower latternities. The reason why it should be so hursful is plain, because the motion of the body increases the Velocity of the Reculations fluids, & therefore lable to cause Obstructions, Inflummations &c. and he should not only be quet himself

60 himself, but every thing about him should be hus hed . Itlan lends. Obs. 2. hands down the lase of a Boy of funteen years of age, who was brought to his grave attended with dreadful Symptoms by Musich playing and people dancing in a chamber new him when he was wounded in the head and in a fair way of recovery. -The most part of authors, without distinguishing with & in what lases, open the opening of a Vein, but to old suchly weak people or where a good of blood was last at the wound, this would be dans gerous, and in slight superficial wounds, needless. But if it is a young, full bodies person; or whose there is fear of a fever, or in 2 flammation, this absolutely necessary Consult Wiseman's Observat-Book 5. & you'll see this verified Now after finishing the general distinctions in the fuce of Wounds concerning the nonnaturals we come to the manner of treut. ing the wound itself, and, as I told you already, the post method of cure that we shall touch at will be Sysarrosis, since his necessary to be known before we can universtand the Sympheses, and when we come this last, we shall consider, what sorts of Worlds require the one method of Rure, and what the other -The Sysarreries is wholly the work of nature, gall that the Surgeon has to do, is to keep all her Instruments right in order, which consists in preserving the Vepels in a right Condition, for the Creulation of their Liquids, and purnishing Liquors for supplying defects, which is owing to the general Regimen, and Lastly, to prevent the corruption of these Liquids in the Wound itself, upon the supposition that we make of its being one of these the lure of such a wound, we are to debar as much as popula-

the accept of air to it, for this contracts the Vepelo & coaquilates 61. the flinds by which, as I don't doubt all of you have observed, when any wound her been exposed to the lir for any time, it turns blackish, is covered over with a frust, from under which a then Icho: rous matter rushes out, consequently it moredes and frustrales nature in her work, whence it naturally follows that we should remove the eressing only as often as necessary for hindowing the matter to lurn aired, or where large quantitys are reparated to prevent its being absorbed by the maps of blood. This Casar Mang gatus de rar. vuln. curatione Lib. 1. Cap. 32, 33, 34, 335, and Belloste in his Chirurg de Hospitals have taken agreat deal of pains to insulcate, the' as the most part of author who are fond of their own Invention, have carried the matter too far. felsus Lib 5. Cap. 26. S. 27. seems to recommend every third clay to have it opened out. Elquapendont Lib . 2 Cap. 7. orders every third or fourth day; but there is no certain rule can be given for the precise time. What I generally take for a Rule is, to remove the dreping, whenever the Patient begins to feel any Itching in the part, which is a sign of a little airmony, but not so much as to destroy any of the parts; and I have jound if in several cases which I could instance, to succeed very well It is true, as aquespend. observes in the thays aforecited, that the Dahints prequently think themselves neglected if they are so used, goblige you to drep is offmer to their own work -The medicines used here are gentle vulnerary Balsams which irritate but little; authors give very large Catalogues of them, and no wonder, since every one may vary them according to his

62 fancy. I shall not trouble you with reciting any except those most in practice and recommended by those that are esteemed the best I rac. :titioners, referring you to these books where you may find the Eest of them . Bals. Terw, Lucutilli, Iroraventi, and Liniment. areai are the principal. The rest you may find in Celsus Lib. Cap-ig. Sennert-Lib 5. part. 4. Cap. 9. Umbrote Parey Lib. 10. Jan cob. Michael Operat. med. Chirary. Sant. 2. Cap. 6. Barbette Sib. 2. Eap. 8. Gin de Chaulieu Trait. 7. Wiseman. Libs. Boosh aave. m. m. yet I cannot pass by a few Med innes that are ones up by their Patrones as if nothing could come near them- And 1: Saracelsus his Uney as morum, his own Oras stription of it is this of Urine, or the most or moul that grows on a human head exposed to the air, Zi, mumning Zfs. I'm gued. human . 34 Sang. human. 3/6. Ol. Lini Zij Jol. Rosan, Bol. armen. 00 Zij Att. f. Ung? S. a. By anointing the weapon only with the vintment the wound was to be cured. If you have amind to be fully informed of it, both to sennet. Lib. 5. Part. 4. Cap. io. _ Berengen de fracher Gran. commends exceedingly what he calls his leratum humanum, telling us he never saw its match, and of its doing mirailes, the description of it with all its preparation is too long to be inscribed here. I refer you to the 4th Chayeter of that Book, where he likewise gives the Receipt of his ling? matri Syloif, which he rechons next best to his Cratum humanum. Boyle in hes merical Experiments, or as it is in the acta bruditorum Lipsij 1694 recommends the Sucus Phelison, as an excellent

Balsam for recent wounds; In these acta Jan't 1695 he gives 63 us this Receijt from Pomels History of Drugs, of this Bulsam which is very much commended in the cure of Wounds. R, Terebin. got 36 Lequid Rubi Zij Bals- Copayo. Gum Taxamahar Caran. à Zij Mastich. mynh. alors, Thuris, Sang. Drawn. Saireolet. a zip A. f. Bals. Aquapendent. Lib. 2. Cap. 7. describes a Balsam that was zer commended to him as an excellent Oulnerary, insomuch that it's Composition was discharged in Spain, because the people trusted so much to its efficacy in curing them, that they were constantly quarrelling and fighting. See it in the place cited, the receipt of it and the manner of using it. I don't think it worth while to mention their Sympathetic powders, Charms, & Sneantations theel some people have pretended so mighty meeters by, since they only serve to abuse credulous people and drain them of their Now, which soever of these Balsams you make use of, the manner of applying is, either by warming a little, & dropping them into the wound, and felling it up with Hesgets, Dosils, or Tents, or else you cover these Resgets be with them, and put them into the wound till it is filled up; I suppose it will be needless to explain what astledget is, or Dosil, or Tent, since none can be thought to be so ignorant as not to be acquainted with them; you know, they are commonly inade of the drawn Threads of Linnen, called Eddice, & By the French Charpie, or else of fine Lint or Tow without Shivers, with these the wound is to be filled up, so that the extre. mities of the Vefiels may be gently compressed, but beware

64 of crouding them in, or strifting the wound with her Jon G, for by this means you'll prefs the Vefeels, so much that they can't be stretched out, which you know is necessary for suggetying what is wanting, you'll hinder the Liquids from being evacuated, irris tale the parts, bruse the tender vefsels, whence Obstructions and Inflammations . you need only peruse Magat . Lib. 4 . Cap. 25, 26. Bellost Chirurg. de Hospital. and Wiseman Lib 5. Cap. 6. 15 6 convenced by manifold repealed Experience of the mischief of this way of doing. When the worind is thus filled up as directed cover all over with a Slevister, which stricking close will keep the other dropings on, and by heeping in the heat and preventing the decep of air, will help the Concochon of Jus, and truly if it has this effect it is all that is required of it. Authors seem very nice in the choice of their plaisters. What is commonly made use of amongst us is Diapalma, which is one of the Simplest we have . If there is any swelling near the Wound which they would Orgest or discufs, Drachylon cum Gummis is applied, or since zule Melilot. If it is in a part where by the ruthing of the Cloaths a otherwise, the dressiness are in hazard of falling off, a where the Wound is large, above the Plaister we apply proper Com? prefies and Bundages. Now, in remove these dressings and applying new ones, we must take care to have every thing ready and in due order for the new one, be fow we remove the oto, else we expose the wound to the air whilst any thing that is wanting is getting ready, we undo them as quickly Swith as little pain to the patient as possible, concealing the ungrate ful sight of the matter as much as populle if there is agreat

quantity of it, from his view, then clean the wound as softly and 05 gently as you can with a little (addice), soft ray, or false lent, for rough handling causes pain, from whence Huxion of humours &c and breaks of linder sproutine latremities of the lepels, which him ders the Wound to heal up, Apply the new dressings as quely & really as may be, and place the member in a convenient situation if there happen to be more wound than one, never uncover all as once, but drep one before you expose the other However, if the Liquid's be brought to the Wound in too great quantities, the fibres briesed or Vefsels obstructed or swelles, the first will produce Sanies, which Celsus Sib. 5. Cap. 26. 5.20. describes a then whilish Liquor, which is still worse if it is in great quantity, too then, pale, livis, or black, ropy, ill smelle, 4 erodes the parts, the bruised deadned fibres appear like a slough and the swedled obstruited Vehels make a shew of plling up the wound, but may be distinguished by the palish wour, and sofinep, this is commonly called spingy of prous flesh, on which a furn (icetria will never draw, but it will be unstantly break. ing out or corrupting below; the Rue of the Sances & Stough is much the same they commonly going together, our by Deterging and digesting medicines . The common Degestive muse use of is Terebin . Venet . in Vitell. Ov. dipolit. by adding alittle of the powder of mysch and aloes , and some mel. Arian . It becomes also detersive Morus, precipit, rub. mist with a little digestive. Liminent acces or Basilie does exceeding well for toth here pur pores, and I howe soen stoney with a little Tineture of mynhe and aloes proce an excellent Detergent. agreependent. Lib. 2.

66 Cap . 3. much comments as a Detergent this composition I Sun & Bul. cipij. Vin . Mell. axung. Forcin . Butyr- recent a S. E. FH: f. S. a. Ung! Ung! Egyptraum mundifuat ex apis were wont to be much used in this lase at the Hotel Dien de Faris. If you want the (hour of more see Hypocrat. de theereb. Celsus Lib 5. Cap. 3. 18. p. 21. Cap 19. p. 9 10, 11, 13, & 20. agrapeno. Lib 2- Cap. 8. Farey Lib to Bar, Med. are lekewise of Service here proquently of liketh in. mediatly. To remove spungy flesh we must use drying or corroling meds as Esciculives, which you may in Book. M. M. M. such as Sang. Drown . Bol. armen. &c. a list of the formives you likewise have there, which are dafted awarding to their differ aren't degrees of aleximony. The most commonly used and most approven are, alumen ustam, morcur i duliis præcije rubs. Vilriol. Roman. & Lapis informalis. But of this sungy flesh is not come to agreat heright nothing does better than dry drepings and a slight Compression. The Use of these medicines in these several lases is to becombinued till these Symptoms are gone of and good equal white I us appears in the wound When it comes to that, the new Substance will grow up daily, and all we have to do is, not to disturb nature in her Work. How because the constant applying of Unctuous med is ready to cause proud flesh rise, and that ony dressings may turn the parts Callous, some prople peopose to have some of the Virtues of the medicines without these disavantages which they effect by applying their Pleagets

Heo gets after being covered, with an unchous med in with the Sule uncovered next to the wound. By this, say they, any of them that are of a penetrating nature will have effect upon the wound, whilst the rest that do the mischief are hept off, and at the same time the peuts are kept warmenough for the concochin of Pus, which truly seems a reasonable snough prac. tice yet the common method is by applying surchis which are near akin to the frest outnerary Balsams sometimes made a little more diges two, and therefore are easily known by what has been saw of these two heads. However, for further satis: : faction consult aquarendent. Lib. 2. Cop. 8 and Lib 3. Cop 4. Barbett. Lib. 2. Cop. 7.
You may see we have considered the Cure of the simple Wound s of one we had easie auch to apply our med! and where the? matter easily discharges itself. But it may happen that a deep wound may be made with a very small orifice, whence there may be hazard of a Collection of matter below, or an abs: cefs or an Ulcer follow, whence we may imagine all sound; to prevent which we are obliged to enlarge the Orifice, which is either done by culting with your Surgors, Bistory, or Luncet, or if the Latient perhaps won't agree to that, we put into it a piece of springy fame Tent, which is made by dipping aspunge in melles melilot plaister, and squeezing it out again till the Spunge is made very their and hept so by the density of the plai: ster which yet remains in it . When apreced of this is cut and put into the Orifice of the Wound, the Liquids expressed dipolive The plaister and leave the Spunge freedom to recover its former dimensions.

68. dimensions, which by its Clasticity it endeavours to do, and con sequently prefers on the Tides, by which they are more separated, and the wound distates. Any thing that swells by imbiling the maller will have the same effect, such as Gentien Root, Polit of sider ye these are always to have a thread tred round them, otherwise we would frequently have difficulty to pro themout aforn as the Wound by any of these method's is sufficiently enlarged, it becomes such a one as we have abready dis. The 2? Pase that may make some alteration in our way of management is, when by the situation of the Wound the maller cannot peely discharge itself. E. G. if an Wound is inflicted in the Leg descending a good way down without the weapon's. prering actwardly below; if it zuns deep, then by applying gras Qual Comprehes, I mean, by placing thick Congresses at the low; er parts, and making them greedually thinner as they ascend, and a suitable bandage over them, we profs up the matter to be. Discharged at the Orifice; or if the Under part of the wound is near the external Textments, we make an agentuce there, be-Lewise it is fitter for the discharge of the matter, and allow the superior Orifice to close up. which agenture is made either by introducing your finger, prober or diffectory to the bottom of the wound, and there culting with a Bistory or Lounced upon it or else, if you can get Mr. Telit's Instrument mentioned by Gar = rungert in his Treature des operation de Phirurg. Tom. 1. Cay. 2. which is a Sillet of about half a foot long with a Buttonat one end and a Lancet at the other; This is ledged in a familia

of Silver or Steel, made somewhat after the form of a Dissectory 69 and serves for a sheath to it; at the upper end of the Stillet by which I understand that nearest the bottom, there is a Syring which when left to itself draws the point of the Lancel within the Sheath, but with a Thumb or Jinger may easily be peef. ed down, so that the Lancet shall appear about a finger head th out of the Sheath. This (anala without any prefound on the button is introduced into the bottom of the wound, then the spring is forced by pressing on the button and the Lancet threast out of the Canula theo the Teguments, and the aperture muse, as soon as that is done, the prefing force is taken off, of the Spring draws the Lancet within the Theath, and the whole Instrument is brought out of the Wound. The advantage of this instrument you lee is, that it can be easily introduced, sweely & sufely makes the apertues, and is drawn out again without the hazard of cut. hing any other part but what was designed; It would still be bet: ter if it has a ring at the upper end of the Sheath into which the finger placed would cesist the Thumb while forcing down the spring which fines out the Sancet, lefter the Brifice is in the most depending part, it differs nothing from our first Supposition, only we may sometimes be obliged to use Syringes to introduce our medicines. All that remains in compleating the fuce of Wounds by Sypariosis is, to incatrize them, but since this is the same in the method by Symphysis, well defor the lica: trive his we have finished that You may remember, we told you the Method of fure by Symphysis was, to bring the parts separated together, and unite them, in

which we are always to observe, whato bring them as near as populle, which depends entirely on the knowledge & structure of the parts, This is performed by gently prefing them, till they come to such a state of Conjunction. This needs no directions for performing it, being to plain of itself. -The real thing we are to do is, to preserve them thus united till the Fibrils shooting out from each side and twishing in one with another, become firm and one Substance (which we may observe is a Sort of Supariosis I They are kept their united, either by Compress or Bandage or Suture, for the Jibula or Class of the Antients is quite out of practice. Bandages are muse we of in long studinal Wounds, i.e. influted according to the length of the member; In wounds of the forehead of this hind the liniting Band uge is proper; but I am not to insist upon the proper ban. Edages, since that belongs to a place proper to itself. Only of, : serve, if it is a single headed Roller you make use of in the Extremities, and the wound is in the inside of the member, to begin the Fundage on the outside paping below then over the Compress, which is to be placed at the underside of the Wound, then over the prefings which are supposed to be applied as in the Syparcosis, except that they according on the Lyis of the Wotens . If the Wound is on the outside, we are to begin the ban-2 dage on the inside, running first down and then up . If it is a double headed Roller , begin by applying the middle of it on the and amost part. The reason of both is plain, because this way of doing brings the Lips nearor and henders them from separating by supporting the dependent part, whereas if it were otherwise

applies the bandages would rather help to divide than unite 71. The 2° manner of preserving the parts united which before were expanded is, by Sutures of which the Untrents had agreat many different Sorts, which I purposely pap by, and shall give you none but what we still in practice. However if you have the Curiosity to know them, consult Colour Lib. 5. Cap. 26. \$ 23. Aguapendent. Lib. 2. Chap. 5. Guidel Haulian Fratt. 3. and all the oto Surgeons The Sutures generally now in Use are five, viz The dry, the Hairly, the Interruptes, the Quill, and Glover's. 1. then, the Dry Suture is nothing but one or two pieces of (loth spread with some glutinous Styphe Preparation, so applied as to keep the Lips of the wound longther, & is generally used in long transverse futs of the Shen, but especially in-Those of the face whose it is rather practised then any other Julure, to shun the deformity which the Thread or need to of the rest are ready to leave. The manner of it is thus, after pre! paring of low pieces of strong Linner or Leather, proportions to the length of the Wound, with small sigilations or shithing out of the sides, to be applies nearest to the wound, and small Straps or little Ribbands fastened to these little processes, or at reasonable distances from the Hom, for instead of the digitation a Linnen hem will do I then spreading them with some sort of medicine that sticks very dose, as Empl. Stypt- Collie, an decentioner, Compositions of flour, whites of bygs, dried flood by of which you may see a large Catalogue in aquapenvent. Lib.

72. Lib. 2. Pap. 5. or Barbett. Book 2. Chap. 6. _ after they are Thus prepared, apply them on each side of the wound at some distance from the Lyis; but first take care to have the part shaven, because the hour kinders the plaister to apply so dose, as they would do, and in removing of them these same hairs occasion agreat deal of pain, and may thro negligence help to separate the Lyis again you are likewise to notice what you spread the lettle Cloths with be of such materials as will melt with Heat, but don't mia with matter, you are to warm it somewhat before you apply it . If it be made of these that depolve in Water, you are to clap it on wet, and allow it to dry before you draw the Straps. Then apoon as these little plaisters are form enough, gently oraw the Lijes of the wound together, so that the part may again be brought to its natur eval situation, then upon the Sips apply a jobel get covered with some of the vulnerary Balans already mentioned in the Eurof Wounds by Incashation , sepon thes lay the Straps that come from the placetest, which exactly answer to one another on case swe first with a slight knot, and then with a Loop or here caply a small compress above the plaisters on each swe, then the barrage, which if it can be got applied ought to be the uniting one The method of performing this Sutine with one little plaise, is, to have it the same way prepared, I mean, covered with such Shiptre Staff as the two former, only so large as to cover all the Wound and some more winded about it Garenyest tells us Chap. 3. that mot Schot is of prinion, that it should have a slet or hole in the middle of it, which the french call Fenestene

Tenesterie or landow'd . that the Surgeon may easily come at it 73. to see what condition the Wound is in, and to apply medicines to it, which without that window he will not do . after fusting one side of the plaister on one side of the wound, the rest of the drepings are the same as in the former. now, after either of these ways of operating you are to observe the condition of it it from time to time, and slacken or straiten the Sulure, renew or let alone the drepings as you think fit the once the swes of the Wounds are perfectly grown together which will be in a few days. The time which authors allow generally for the reunion of wounds by Symphysis is ten or levelve day in large ones, and two or three in superficial ones. See Wiseman Lib. 5, When you are to remove your Stitches, which is I maly warm: zing them, if they are spread with plaister, or washing with warm water if it is the other sort; the commonly the matter coming from the wound insinuales itself between the Shin and them that they fall of of themselves . 2. The neat Suture is the Hairlip, so called because sols om use but to the Lips when divided as those of Stares naturally are, the it may begrachese on any large gazing wounds, and loose pen: dulous parts, The whole of the operation is to introduce one or more small needles & round thro' both Leps of the wound, then faster threads about them so as they may not come out again, The Reed les are to be chused longer or shorter according to the depth of the wound, they are more or fewor as it is in Longth. Inorder to introduce them, make from the light either with

74 your fingers or the Instrument made designedly for this purpose of a juece of Steel pretty thich; slet at one end, at which it's thicker than at the other, and has shoulders, and within teeth, on this a tring runs, which by being she down towards this end prefer the slet part close logether and grips fast any thing that is within the Slit, at the other en a handle is fat. This the French call Porte aquile on needle holder; after the needles are introduced, wind either thread round one by one, in The way that Taylors fix theirs, or make one thread serve for all, by beginning at the represents then runing below each mount up by croping round the lads, again descend to the next middle cropsing, it is the same as in the first, and so on to the rest, making as many of these turns as you think sufficient for keeping. after your threads are fixed put a pleaget with proper Balsam on the wound, and a little bolster on each side under the ends of the needles, snapping of their points with a pair of culting Forceps or Supars, lest they run into the shing kent the Takent, over these apply a sticking plaister and ban, (dago, drefung it from time to time as already directed full the Union is compleated, then gently undo the drefsings and threads, and heeping with your fingers the Lips from being torn asunder, draw out the niedles, leaving some little dressings on for a while, hell the sides that the needles left are filled up 3. The Third Suture is the Interrupted which the most gene . rally use, this performed by thrushing a threaded needle thro' both lyis of an Wound, and after bringing the lys together to keep them so by tying the thread. In small superficial roowed s

we make use of slight heedles which are gennally three edged, 75 towards the point . In deep Wounds, crooked needles which are two edged are more proper, and all of them are bigger or less, accord. ing to the nature of the wound; they all howe an eye thro' which the thecas is placed and afurrow on each side behind for lodging for lodging the thread that it may not be too bulky, and difficult to go thro for the same reason and to prevent its being goded or swelled with the matter, and so feeting the parts that it touches . The Thread must be wased and greater or small he according to the depth of the wound . These heedles thus prepared must be thrust in at a convenient and sufficient distance, which can't be precisely determined, since the larger & deeper the wound is, the greater distance must be taken from the lips of it, on that side where it must be drawn back, I say, it must be thrust in near the bottom of the wound . If it is a small one, at once you presse the other by too, but if it is deep, take out the needle at the bottom, and push it the same way from within outwards, as you did in the other from without inwards, oringing it out at the lene distance from the Lyp; When the Wound is deep and the Tequements brugh, the Operator has agreat deal of difficulty with his finger to thrust the need to thro' wherefore he makes use of the Forte aquile or of Mr. Jeht's new Instrument describes in Garangest Cap. 2. thus, at Ring with a small perie out of it, upon which a lettle in form of a funnel turns as upon an asis, which Ring is put on one of the Operator's fingers or his Thumbs and the eye of the needle, and the funnel in order to thoust the needle thro the lips of

76. the wound; if there is a necessity to make more than one Stith you go the same way to work; only remember to begin always with the middlemost or at the Dingle of the wound, if any be. m. Setit es we bearn from Garangoot Cap. b. advises, contro = my to the rommon grachie, all the Shitches to be made with The same threed without welting it off till all be done, because, says he, when the patient hours the Supars elyjung the thiers he imagines the work done, pets and turns uneasy when he is put to new pain, but whether this or drawing thro' such a long thread as after this way there is a necessity of doing, be the greatest inconvenience I shall not pretend to determine. How. zever, which of those methods you practise, after a sufficient number of Stitches is made, which Wiseman 13.5. (. 1. deters mines to be always one less than the wound is in ches long. E. G. If the wound is two Inches long, one statch is sufficient if three, two is sufficient and so on. The Lijes must be brought together by an apietant or Sorrant, and then you lay the thrends beginning at the middle or angle with a single knot towards the upperend of the wound, upon this you place a lettle small Compreh, or rather as Garangeot tells us, mr Thisault would have is a little bet of rolled wase Taffely, which is firmer, & does not imbibe the moisture that comes from the Wound nor ready to feet the parts, above this you are to make another single knot, after all the threads are fastened on each of the knots put a lettle Compreh which may hinder the other dres. esings to shik to them, and so may lear the Stisches in reemoving them, then on the wound itself apply a Fledyet with

proper Balians, and a plaister over that, or ruther a Compre 1,77. dijit in some proper medicine to prevent Inflummation gallay pain, of which hereafter, and lastly a bandage to keep ale from Beware of removing the Drepings, which you must do every two or three days, not to jull the threads or separate the Stitches, and you are to proveed by the samerule as in the Syls arcoris, till once the Union is completed, which will be sooner or later, according to the Wound - When you Slide the point of your Supars under the threads and cut them, then hotsing the Lips firm together with your left hand, pull out the threads gently with your right, for you are not to let the Stitches remain any longer than is just necessary, because the threads cut the flesh and leave pretty deep holes behind them which one sometimes troublesome to cure, Besides the deformily of their Sears. Trequently eyon Inflammation poen, & happening to the part, we are obliged to undo the Stikkes tell once these Symptoms about -4. The fourth species of Sutures mentioned is the Quill, we of the abomen and Stitching of Tendons, the it might very well be just in practice in very deep wounds of other parts. where we are afraid the threads of the Interrupted Suture would by the strong contraction of the Lyis of the wound be entinged her and of culting quite thro'. But since the manner the manner of performing it is the same in whatever part it be, and that we shall be necessarily obliged to mention it in discoursing of wounds of the abomen, we shall defer it hill then.

78. The last Sort now used is the Glovers, which is only performed when the Intestines are wounded, and therefore will come of course union the same Head as the former. Tis true indeed the Antients performed if in Wounds attended with an Hoemonhage, but certainly to the great loss of the patient, who was thereby in hazard of a gangrene in all the parts round about, or at least a large telescefs must Now these Sutures are only fet for and put in practice in simple clean recent wounds, but by no means to be used when a large lefel is opened, and agreat Homorrhage attends it, because the Good not finding a free last will dispose itself theo all the parts a 2 bout, and bring on abuefes and gangrenes by nor can it be done with safety, after by its long continuance, it has degenerated into an aller for by this you'll easily see the Consequences might be as bad by the matter, which should evacuate, being pent up; besides, this same matter hunders the reunion, nor when it is attended with a consis denable Contusion, for the confused parts must first reparate before Mature can perform her Work; The same hold good when it is intere enally exusted over, or of there is a great loss of Substance, that is, if a considerable piece of Substance is cut of, because it would Stretch the parts too much, therefore create low much poin to bring the separated parts together, and if they were cicatrized it would then be so deformed as to be a continual reprouch to the Surgeon; Weither are we to attempt it if in the Operation there was a manufest risque of wounding any large artery . We are likewise to let Survees alone, if there is agreat Inflammation & Tension on the parts, because by performing it, it would but innease

the Symptoms, which might prove dangerous. If any extrancous 79 body is in the evorund it will be needless to statch it, because this would accasion an Imposthume afterwards, for do what we would the parts wowed not unite till once that was extracted, especially if it was any poison, it would be madne to to their it up, seeing you would inevitably destroy your Satient by its getting into the map of blood: Nor are we to conture upon them in a post where motion is absolutely newfory, for instance, in the Thorax. because of that motion the Sutures would be torn, consequently the Wound made worse than it was at first . Hence you see what wours are to be used by Sypariosis or Incarnation, to wit, all those that are discharged just now to be treated by Sumphysis, whelst all the other Species belong to this Cafs You may remember when I came to finishing the wee by Jupar cosis, I low you I would defer the Cutrix hit I had pinished the Symphysis too, as being common to both . and truly we ought to take abundance of care in this . If it is in aplace that is seen especially in the fair dex, it will be a fault never to be forgiven if it is remarkedly deformed. The great matter is to take care of the former, part of the cure is felting up the wound with good firm flesh, and thei to a sufficient height, shunning all things as much as possible that may make great loss of Substance as Causties & or may force on a skin before the wound is perfectly filled up, as astrongents, too great Desiceants. after it is once beginning to fill up the sides gradually draw on a Skin, allow is to cover all over; when it is grown sufficiently up, then confirm and strengthen this Thin or (watrix, and bring it to a right

80 · lolour, by washing it with warm of thine or Brandy. ze or Lime Water, covering it with Ung. Desiceat. rubt. de le augusts ze lelsus Lib. 5 lap. b. \$.30,36.

Raller Institut. Révurg. Lib 2 lap. h. Forrest. Obs. Chirurg.

Obs. 26. Lib. b. Aguapendent. Lib. 2. lap. g. Barbett. Lib 2.

lap. 8. Boerhaave. M. M. S. 217.

Me proceed now to consuler the woulds of the other parts of the Body, and first as in the Diagnosis of a Small Artery remote from the Meart, which we told you if quite cut assunder refered unity the neighbouring parts and was stopt of itself, therefore the live differs nothing from a simple waind, which we just new finish. Led, but if it happens to be only in part cut, which was our serond supposition, it will bleed for a teny time, wherefore if we can some considerate at it without hurling any considerable part, by waternot to the first, or else by compressing with tolsters, experically those called Syramidal, which at first one very small but quedoughly turn langer, and Beineage; or if that can't be applied, by putting on listringents or laustices, for which immediately I indecentary on listringents or laustices, for which immediately I indecentary to stop the Harmorrhage.

If it is a large Artery quite divided, there is great hazard of the person's losing his life (unlife specialy remedied) by the efflux of blood. To do this, several methods are proposed, First, By astringent medicines which contract the Solids and wagulate the fluids. These ment commonly used are Warm fit of Wine or Oil of Turpentine; which sometimes have very good effects, and hence this last is pequently used in amountations. Bot armen. Sang.

Sang, Dracon, Red. Tormentel. Mastick, Thus, aloes, 81. with the while of an lag; the Repilus Lupi, or what Children wall the Devil's Box, is commended by some Galen's power, which is Alors p. 1. Thur. p. 11. Haus. 2. S. mixt with the albumen Ovi. This is recommended by Wiseman and several other good Frach; Tioners. Celius Lib . 5. Cap. 26. S. 21. orders pieces of onjed rags to be crammed in upon the vepels, or, if that world do, let them to dipt in Vinegar . If you have a mind for still further Variety, See Stippour de Ulier Celsus Lib. 5. Cap. 1. 18. Haller. Institut Cherry Lit . 3 . Cap. 4.5. Aquagend Leb . 2 . Cap. 10 Anchiridion Chirurg. Lib. 2. Cap. 2. Barbett. Lib. 2. Cap. 4. Wiseman Stb. 5. Cap. 2 and Boorhaave. M. m-Which socoer of these you pitch upon they are to be applied your the Vefsel itself with either Dosils, Pleagets, or Linnen rags, all covered with some such medicine, fell up the World with these, and apply agreety high! Bandage over them: If the bood is stopt with this way of dieping, supported and digest as well as you can, and going on in the lure as in a simple Wound, only for several dressings after the application of the astrongents, don't remove the Hedgets or Dosils nearest the Vefel, & deal very gently with the rest for fear of making it burst out -There have been several infallible remedys proposed for blood, zing; but in the end all prove to be Compositions of these astrin. egents or the Corresives that immedially follow, out of which two Capes indeed a prodigious variety of Compositions may be cons trived. The most famous are these mentioned by Dionis in his Operations de Chirury. 9. Demenstration gin the Philosophical

82. Transactions, 11. 94. 95. Abridgmens. Vol. 3. p. 252. eve have an aucunt of several Experiments made with the French. and in 11. 200. abridg. p. 252. of Dr. Colbatz's Styptie, we appeared to be a strong facestic, but neither of them had the bond for succep. Corroswe and Coustic med? are rechoned still more power respect than these, for they not only act as astringents, but lekewise destroy the parts, and onew on an Eschar of frust on the mouth of the Vehels. Those made use of are Vitriol. all. & Romanum, Laper infernalis or Caustic Stone, Sp. of Wine, Oil of Vitriet go. These are applied immediatly to the mouth of the Nopel whilst the rest of the Wound is faled up with astrongents; they weat into Herallo racking pains which may be ready to throw the Satient into Convulsions, especially if any orsence is poined with them, we however authors of no mean note; particularly Wiseman Libs. Cap. 2. recommends, the this last Ingredient never mises to be of bad consequences. all these medicines labour under several other Inconveniencies, as the destroying the neighbouring ports, whence, if another artery is near, it may by them be opened, as Boerhauve uses to apure us happend to a young Gentleman at Legden who was wounded in the Cubital Artery, and cost him his life. Then when the Ischar fulls of, the Vefsel may again blood, and there never misses to be a great Suppuration and deep wound Sec Wiseman Lib . 3. Cop. 2. Obs. 2. 45. wherefore I would rather prefer the achiel Coulery which does not perin so long, nor spread further than we design, and does as well .- This is performed by quarding the parts about by applying Refrigerants, such as alumen, Sauharum Saturni dipowo in some

Rose water, vinegar, and the white of an log, then introduung upon 83. the mouth of the Vefsel a Canula or Sige thro which ared hot Iron is thoust, which in a moment maches an Eschar Graises a Grust that stops the Hooding. Then immedially both Canula & fauting is tuken out . Tis true there is the same hazard of blooding of ter the Segunation of this Crust as in the former method by So: tential faustics. An instance of the Suciety of this way of doing I can furnish you with from a near relation of mine, who was wounded in the mid. a de of the Inside of the forearm between the two bones, whereby the mode antery was opened; The Surgeons in vain applied is rearoties and tight Bandge with Compress, he still continued bleed. ing het he was so weak that they bould handly distinguish whether he was alive or dead, when this method of the red hot Iron was proposed and after he was cauterized the blooding. ceased, and he recovered. But I cannot mis observing, that the straiter Bandreges the Surgeons applied, the more the Hes, and when the drefsings were quite of, very lettle those came out, w. old not a lettle surprise them; where had they but considered the Compression they made did not at all affect the wounded Ur, but bone has on the cubicity and mainly known that this must necessarily they must necessarily have hoppened according to their way of management Visw, because the the uncertainly of all these ways of doing & Incon. eveniencies that attend them, the best fractitioners chuise rather to By the l'efsels where they can come at them, for this holes firm let once the satremity of the artery is sheet up; none of the neighbour! ing parts one much hurt by it, and no great Suppuration or Cavity is made . This is done by introducing such a needle as is

84. already described in shikhing with a wased thread, and lying two simple knots or one simple one and a Loop firmly upon the Vefel, alittle above its aperture, which is easily discovered by unhorshing the Tournequett, tuking in alittle of the flesh about it to make it the firmer, but not much, because all that the Thread grips must fall of: If it is an acting that come municates with an artery below, there will likewise be ane. Thilos, Transocet. No 250 p. 1179 mous abridgement Sart 2. Cap. 5. gives two Examples to enforce thes, and the reason is plain, because there being no Valves in the asterys the blood will easily flow backwards in them, and the case be just as bad before the artery was tred above, for which reason there thould be two or three threeds introduced in the needle which may be in readiness to secure any Effect of Blood from these Communicating Branches upon the hads of the their There are small little bolsters of Linnen to be applied byit in some Styphe Liquer, and above that Hedgels and Dosils dimes with astringents, then Compresses and Bandage. Lef it remain thus for some days, & at renewing of the Drefsings, gradually take out the Stadgets, not stirring however the little bolsters or threads, till they fall off of themselves by the Sappuration which you are to promote by Digestives . afoon as these are sup. quirated it becomes of the first sort of Wounds, which we already to to the lune of -You see that in all these different ways of curing the yestures of the large lefels, there is a necessity of applying compress and Beinderges; The best & most effectual Empres is the Syramidal

which is but small cit the part but gradually grows larger. The 85. design of this figure is, to bear hereder upon the parts, that needs it while the neighbouring perty are saved, consequently, not so much in hazard of bringing on a Gangrene, but stopping any ther artery that cuns near to the wounded one which may scryly all below with Blood . Now thes Nort of Compression may and some; showes does perform the fure of itself without the apristance of any other of the methods, vir where those is a Bone to resist it. for, by placing the half of a Bean, a little show's paper, or a piece of money nearest the wounded arting, this will be prefed so between that hard Body and the Bone as to be entirely stopt. Wilness, the burning of the Temperal Astery - The Bandage's will Difer according to the different parts, but the description of these ra: ther belong to a Course of Bandages than to this usesent Subject. The spare Diet abready recommended must be oiligently observed in this case, and if the Body is plethorie, Blood letting is very necessary, with heeping the body cool, and shunning ruffling papions; Never trust much to the use of Internal medicines for stopping of blood, because if they art either as longulators of the Liquids, or Contractors of the Solids, theyell never get into the map of Blood as such, or in such small quantities as can do lette Service, the Physicians in Hamorrhages of all sorts frex quently prescribe these astrongents, as Jule Sang. Drawn. Helvet. Sperm Coolle which last is esteemed by several an infallible me, duine and Shypte Waters . Samziveerde Obs. 73 has the lase of one who was come of an Hamorrhage upon an Wound of the Back below the short dibs, by eating flanders Pease and Turky

86 Beans, after all other medicines for stopping the flux had failed The antients used to lay great Streps on Revulscins, as you may see in aquagendent Lib. 2. Gg. 10 . which they did by Egyping, as nointing, Bathering be in the parts at a destance from or oppor site to the wounded artery, but these have no great offeel, line the blood has a free auce is at the opened living thank it has a papage to any of the party where these Revulsions are made: and It is a known (ase), that wherever there is the least resist. cance, there the blood will run most plentifully. You may remember that in the description of these sorts of wounds, I loto that if it was the only certing that was distributed to the parts below, it must of new firty lose all Sensation, Motion and noureshment, and therefore be just agreed of dead flesh, and gave several Observations from buthers to prove it, wherefore some author advise the immediate later, pation of the member, as for instance, if it is the Rumeral artery that is cut, they would have you immediatly to am quitace the ann at the wounded entery, but you had better go on to the stopping of the Samonnage, and wait for some days, observing from home to time in what condition the arm is, for sometimes hature cruses in the destribution of the floor ve pels and mistens of one sens two . I have seen this in several Sub, yeels, and particularly in one I have by me with the liefels injecto, in which the Routary artery splits in two, the superior Franch firing continue down along the Rudies, the other forming the Cubital and Medial antings; There is one thing however in general as to the storying of the artery, I would have you observe,

That of Hopping you see a great Efflux of Hood, you immed? 87 ally apply the Journequell above to stop it hill one wou get the drepings ready, otherways the Sationt may in the mean time lese more floor thein be can spare -The next Species of Wounds mentioned in the Diagnosis, is, the culting of the outer louis of an arting, and by the internal yield; zing to the prepure of the Bood, a bue ancurum ensuing of which the distinguishing Chanactoristies are already guen to that you need to be in no hazard of mistaking it for an als, cefs, and treating it accordingly, which sometimes has been of the most fatal consequences. Witness, Bonet. anatom. Fruit. Lib. 4. S. 2. Obs. 21. If the Tumous is small, by astringents & Comprepion with a regular low diet and necepary Evacuations is may be cured, as you may see in Wiseman Lis. 1. Cap. 18. and Lib. 5 Cap. I. and Hilban. Cont. Obs. W. or efetis in a very large artery near the Trunkef the Body, your are not attempt any other method of lure, But if it is a large one that won't gred to Compression and in a pont where you may easily come at it and by it without hozard, you are to proceed to what is commonly called the operation of the Incurism, because if it be bet alone, sometime or other it many hurst and the Satient lose his life, as it had near done in the third Ots. Cap. 16 of Wiseman, and Augsch Obs. 2. How to perform this grenation, we are to prepare the Sections's Body by Hooding & purging to be in better case for unsergoing it, which home may be allowed if not requiring immediate sporas, tion. Then when the operation is to be performed, place the

88 Takent in a convenient posture and light, apply the Town nequelt with aurular Compress round the member, and a thuk bolster where this actory riens; for the Townequet is always to be applied where the single Unters (that is afterward of during into several branches to be distributed to the several parts) lies, over these two Compresses just a strong Band or Garder tooke recend the arm slackly, and the stick with which that is to to twisted exactly opposite to the thick bolster; or che make use of Mr Ichil's machine which acting with the force of a screw does more gradually and firmly make the Comprehion Let The member be kept from by the afistant, then toothing the Toursequette or turning the sirew make sure of the Hood from disturbing you; then cut open the Tumous with a Bistony or Lancet, according to the Length of the member. If this Inc resion is not large enough you may make it still larger by wetting up or down with expair of Probespointed Sufraits, with your finger take out all the clothed blood and threads that are to be found in the Tumour, relaa the Tournequett a little, that you may see exactly whence the Blood comes, and affing up the artery with a hook, soparatoit as well as you can by differing from the Vein and nerve that ausmpany it, and pass a need to threaded with two or three threads belowit, bring is out at the other side. Im Jeht has contrived a new fashion of a need to for this purpose, which is cortainly more con. evenient It differs from the common crooked need to in this, that it has no sharp point or edges, so that it is not in hazard of hurling any of the parts; the Eye of it is in the middle sat the

other end, I mean where the lye uses to be, it is crooked & broad 89 that it may be kelo from . This is put under the artery till the threads appear on the other side, when they are taken hots of the Meedle is drawn back again, and leaves the threads below the vefel; then one end is hed above the upper aperture and the other below the under, while the third is kept as a Reserve in case any of the other two slip, or is not four enough tred upon the Vefel. Some inces do not tie the l'effel at all, but apply Escarohi medienes, justas when an actory is quite out asander; and truly after the agen. the and Evacuation of the flood clots and threads it differs nothing from that lase, a therefore I refer you for the further lune of it to what has been said on that hear. -The last effects of a wounded artery is the production of a bas. tand aneurism, when the blood is pentup, and insinuates itself thro' all the neighbouring parts, thes requires immediate quation because of the hazard the member is in of a Gangrene; this diff. fers in nothing from the firmer manner of performing, only we are to endeavour to squeeze out as much of the extravasated how out of the surveinding parts as we can , and if a gangrene is be; -gun, to make deep Scarifications in the parts about, to allow a papage for the flood and matter which are the Oceasion of the Gangrene The Veins when wounded may produce the same Thonomona but in much lef Degree, nor attended with such violent symptoms or imminent sanges & therefore what has been saw of the arterys may Suffer for them The Lymphatic Vefiels were next considered, which astrongents, or genterscholies will soon stop, such as warm Ol. Terefinth: or alcohol,

90 or a Solution of allum, Sauchar . Saturn Vitrol &c drops into the sound. Some people immedially apply the actual lauthy, but all these means are prequently inofferfuel unless fare be when at the same home by Bandage to compress the Vessel from which the Lymph was out, or if we can come at it, to stikh it; the Wound will be brought to the post Simple Species. The Nerves and Tendons if quite divided don't differ from the nature of a Simple Wound , only that In Rammation & pour see to fe prevented by peoper med? of which hereafter, unless it be proposed to with the Tenden to present the mobilety of the part, us may be, and how been done with Sucrefo . Vide Vano . Weil . Cent 2. Obs . 45 as m Dionis in his 8th Observation afoures us after making an Incision lowords the part near the muscle whose Tendon is cut , to Priscover that and of it which is drawn back, with your hogers or a pair of Forceps the laternities are brought togother, Thept so with the simple Interrupted Suhure, or the Quilled, which we shall afterwards describe, only the heedles that wie to be used are round that we may not cut any of the Jibres. Vide garanged The Wound is treated with outnerary Balsams & Spiritous med? and the member hept perfectly from, can that muscle relaxed as much as possible, for fear of learing the Stitches asunder. If the nerve or Tendon is but in parteut which we discover by the Symptoms described in the Dignosis I there is a new fully of remedying it quickly, for if it be allowed to continue, such a train of diseases may come on, as may not be soon remedied. If it be a Newea Lendon, the Use of which the Satient may want, without any great Inconvenience, in a place where one may but without any Danger of other Tendens, nerves, anterys to and if other Symptons

are coming on very fast, the speediest way of ture is, to divide 91. it entirely, by which it is induced the Species immedially precioes. ing, or if it be noticed in time, and the authory of it be not 20 safe, we must have recourse to medicines. These recommend; ed by authors are mostly Spiritous suffle med! with a lettle Oilines, applied worm; These stop the open topels & strengthen the rest, such as Ol. Torebinth, which is the most generally re, commented, as you may see in may's Decad . 2. Obs. 1. Mecky 2 reen lap. 28. aguapend. Lib. 2 Pap. 11. & Wisemandis 5. log. 3. the after the Inflammation is once come, he apures us he has seen very to effects from the application of this Oil. agrapend. recommends Ol. Sabin. The medicine which Wiseman commonly used was Ol. Rosar. W. Sal Spy Vin. and Campb. or a few grains of Euphorbourn are thewise origed up. This last or any other acred medience should be cautionsly used in thes lase. because sometimes they are of the worst Consequence, as you may see in Staller . Institut Chinung . Lib . 3 . Cop. 2. Esquenny it to the cold air or lyplustion of cold med? must care Efully be shummed for fear of Conoulsion. No simple Oil or Was ter is to be applied to the newe or Tendon immediatly, for by them there parts are soon corrupted; but Cluthors generally order thowhole Member to be well embrocated with warm Oil, especi. -ally towards the origin of the Howe, and particular face must be taken in the management of the nonnaturals. Upon this Subject you may consult that Chapter of Stalluius just now utes, and Magget Lit 2. Cap. 3. If other auchents or Symptoms have abready hoppined, we must accomodate ourselves to them, which we will in alittle

92. Now we have gone theo' the wounds of all the general parts of the body , and therefore must proceed to the accedents or synge Home, that may attend these wounds, and the method of live and First of extraneous bodies lodged in the Wounds, the extraction of which is generally by Surgions rechoned the forst Intention in the live of Wounds, and therefore do commonly before we have any notion of the wounds themselves teach us thes and But to me it officered aplainer without and better for understanding this Subject, to rank them among the access onto (as they certainly are I that attend wounds, and therefore premise the general live of Wounds themselves Under extraneous boores I comprehend every sort of Substance that will not unite with the Tolds of our Body, & may hinder the reunion of the parts in which they are ledged, whethey they keef Stone, inetal, wood, Bone, Coth, dead flesh, wagulated blood &c. Poisons may very well be ruchoned among extraneous bodies, but these I shall consider by themselves; confining my selfat present to such Substances as may be carried how of, and drawn out the antients has more much oursion to see this than we in Varieties, because of the different Instruments they make use of in thur Want whereas now on such occasions, there is nothing almost nothing ased but witting Instruments and Shot. The same general Rules however will serve for all The Instruments mostly made use of for extracting these sorts of Bories are Foreigns, which may be formed of different bigness and figure, as you may see delineated in Scielles. Annament. Chirurg . Jab. 4.9.10.11.14.15.18.20. where they are collected from authors, who have heater of This Subject. There

There one indeed some particular Instruments for particular 93. Substances, E. G. the Screw for fixing in Bullets, wood & when supported by the Bone on the other side, which are leke wise deline caled there. Supposing therefore that by Seeing, feeling, or with our Probe we are afuel of an extraneous body being lodge in any part, the place of extracting these is where they entred, unless there might be langer this way of hunting some consi; donable Vehel on that it has pierces near to and longer in the opposite side, or that the body is of such a shape as will not allow it to return the same way it went in for instance if it was a barbed arrow, especially those with Springs, new in any of these cases, we are to take it out at the opposite siele to where it entred. In order to extract it the first way, we are to place the fatient as near to the posture in which he received it as possible, since it is plain, that their the prepage of it will be more direct than when the parts are any thing twisted by aftering the position. Wiseman tells us a remarkable Instance Lib. 5. Pap . 1. from Vesner who herd been at agreat deal of pains to extract an arrow from a Gentleman, but all in vain, till he understroo he was on horse. back, when wounded, upon which he put him in ariding posture and immedially with case pulled it out. If the Orifice is so small that we cannot get Instruments introduced, we are to enlarge it as abreaty directed, if we may do it safely, let us, without he gand of ceeting or destroying any Blood vehels, nowe or Tendon; then cathing hold of the catraneous body we draw it out . In which Genation these precautions are to be used, vir, To have all the Instruments necessary in readiness, To catch fast hold of

the extraneous body, To move it from side to side, in order to bose it before we begin to pull, and Lastly To extract it gently and slowly for fear of leverating the neighbouring pearls, apply ing one hand to the place whence the body is to be extracted, which may keep the member former, and by feeling the Course of the Instrument the Operator will better know what twins may be necepary to be made. When any of the other (ases happen which oblige us to calvail it on the other side, we are first to consider exactly, what parts we have to pierce before we can ame at it; When we know that there are none that are dangerous, we cut upon the Body itself, making our aportare in proportion to the bulk of the extraneous body, rather however too large than too little, to sheen putting the Patient to double pein, or frustrating the Operation, and contuing the parts, and proces then as in the former manner of entracting. The most propor time for por forming this Operation is immedially after the infliction of the wound before the Inflammation (which is always more or left in every wound I come on, which makes the parts much more sensible and swelled, so that there must be greater pain and trouble, be. esides that this extraneous body helps to increase all the bad Symptoms, as you may observe happened to apoleman's scrount in Wiseman's Book 6. Page. 2. and Bislow Exercital anal. Cherry, Decad . 1 . gives an account of a man in the English acmy at the Battle of Heinkirk, who lost his life by the wilfulness of his surgeon, who would not at any rate extract a Bullet lodged be tween the 4th & 5th Ribs, & had not proved the Sleura -Notwiths

Notwithstanding the disadvantage of such Substances longed in 95 Wounds, yet those are several lases in which we are ofliged to lowe them, if the continuance of thes Body might keep the Salvent alive for some time, whereas afsoon as it is drawn out he must dy. In the lase we are not to touch it . The Cornelius Nepos in Vita I paminondo Cap. of lells us Thappened to that General fighting against the Lacedemonians; and we may make a reasonable enough Supposition of its possibility. For Example, If an arrow has pierced part of the aorta or vena lava, this might so stop up the hole no hich it had made, that little a no blood could escaye, and Mature might make a Shift to continue The Circulation for some time, but if it was drawn out, immediate death must follow from the left of blood . -Setrus de Leugelatu (hirury . dib . 3 . Traes . 1 . Cap . 12 . confirms this Supposition by the auount he gives of a Countrymen who was wounded in the inferior part of the nech by an arrow, the shaft whereof broke so close, that he could not take hold of it helt Incision was made, the Satient had a slow fever upon him and spoke well, whilst the Wound was enlarging; he bade the Opera. ter do his work bothly and not be afraid, but before one Ider noster could be said after the extraction of the arrow, the Saturd died, because, says Largelata, the arrow has been fixed in the large Artery or Vein -Then again, if the Inflummation has already seized on the part, the estraneous body lies deap, and the Orifice near dosed up, or the patient weak by the pain the extraction might make, we would increase the Inflammation and fever, and perhaps throw

96. The Salient into Convidsions; therefore it is neither then to be ventioned upon. If the extraneous body is large and Deeps ar mong the muscles Elefsels and firmly fixed, so that it cannot be brought away without a great Locceration of the purts, we are not to attempt the extraction, but wait hill it loven by the Supe yunation when we may do it with ease. And Lastly, the we are sure that there is some such body remaining in the Patient, but cannot discover it, we are not to put the Satient to too much brouble by searching or cutting at random to find it, because we might do much more mischief than yer haps it might occasion, since lowe a great many instances of such Substances being lodged in peoples bodies without much prejudice to them, as Signorrates de morb. Vielg. Cap. 5. Sh. relates of one woho was wounded in the Groin with an arrow, the head of it remained un contracted, yet the wound heated, and the Satient laborated under mo inionveniency from it, six years after the head of the arrow was discovered and cut out. Dechers Exercital Frail . p. 322 cina Jurg. tells us of a Gentlesnan who was wounded in the right Hy. you hondrium . after thirty years the bullet was cut out of the knee Or if it is longer in a place that is not so favourable, nature will exert horself to be rid of it either by raising a new Suppuration or Imposthume in the place where it is, and by that throwing it out, as you may have observed upon a Thorn or Sulint of Simber running into your hands which you could not get out again . One very remarkable Instance of her wonderful Industry thes way, the it is not directly relative to our purpose of external Wounds. I remember to have seen in the Notel Dieu as faris, in a Boy who

had in apiece of bread swallowed along his needles about three Il weeks after an absceps was formed his navel on his night side, out of which when opened I saw the needle taken and the Boy re; covered soon after. You have exactly such another Story in Ruysch Obs . 55. and several in Durman Chirurg , Jusios . Lib . 2 Cap . 6 . Act. Hoffmanni Vol. 3. Ols. 72. This manner of pering herself nature only takes, when she cannot have fee neces to do it by the first Orifice, else by the she throws it out, the frequently it is so fixed as to occasion a long Suppuration, and very tedious fure Whum. ber Ofs. med. g. tells us of one that was catraite, but for some months did not were, till by the Suppuration agreed of theth was thrown out, then it soon cloved up. Riban Cent 2. Obs. 24. gives us an Example of the frampet of a Sword king longed in the face for several years beforest was taken out, to the great pain of the Latient . Wiseman Sib. b. Cap. 2 - relates the bad offects of too much work in endeavouring the Entraction, and nature's method of pering herself . - I remember to have seen in Cholica haspital near London, a prece of rag evacuated from a would that had been several years accuring, and soon after the part was sound. Some people pretend to lay aside this operation ultogether, and to have medicines which they make great Secrets of I that when up, Eplied to a Wound rids it of all such Pories. The like effects, he says, Distamnus fretie and Stores Grease has These thing discoveras mighty secrets of some Theysuians, the I believe that these Uncara which some people have pretended to in this lase are other meet trifles or suppurating med? What confirms me in this is, Forcest. Obs. Chering. Lis 2. Cap. g and Casar magget Lib 7. Cap 8. where they discover a number of these wonder working medicina and

98. They all prove common enough Degestives and Detergents. Whenever then these extruneous bodies are removed, the wound comes under the rank of these whose live we have already delier, ed which is needless to repeat -The only thing now which remains of these which may be called foreign extraneous bodies, and that are offension to nature, is Toisons, which I told you I thould consider by themselves asre requiring aparticular brechment; Now to go thro all the different kinds of these with their as various effects when received into the map of blood and the particular specifies that several of them have would be to engage in an affair that would take too much time and quite foreign to my present purpose wherefore I shall only confine myself to the Surgeon's duty in this First then, all delays here are of the worst consequence, wherefore as soon as you know, or have but reason to suspect that the would is goven by a venemous fracture or poisoned Weapon, the most in. = mediate way of preventing the poison getting into the map of how [which is the whole aim he should have] is, to cut out the xounded part immediatly, or burn'it justy deep with a red hot iron or strongest potential lautory, - If this is not allowed you, the next method will be to apply (upping Glapes to the Wound, by which any Lequer that is in the Wound will be forced out, and what remains of the poyson with it, and scarific pretty deep round, so that the Pourse of the poison (along with the Liquid) towards the Heart may be interrupted; Till up the wound and coor the parts about with the strongest Dryestives, and

Supperating

suppurating medicines, for these suppurate the broken Vefels x 99. consequently bring away any of the poison that remains in the Wound; if their you get out all the person, the Wound will heal up, if treated the same way as those abready mentioned; the Thesician in the mean time ordering such internal medicines as the nature of the poison requires . We come next to examine the other accepts & Symptoms that may attend Wounds, and consider the method of lure. And first of Contusions, which is the Solution or breaking of agreat many Vefsels, consequently a Complication of agreat many small. Wounds, and Efusion of Liquids made by a Body that is not sharp. If I was to discourse of this in penticular and all the effects of if thro the different parts & Consequences that might follow from it, I should launch out into a large feels, but you know it concerns us at present only as far as it relates to Wounds, in which face we are to look upon all the broken contined befield as so many impediments le Rounier, wherefore we are to sepas. rate them afron as we can by Suppuration, which is done by filling up the Wound by Digestions, of which elsewhere, and co: ver the part over with such either is form of Haisters, Cata: : plasms & . Of the first Sort are legatum de Galbano, Durchy, · lon cum Gumm · Empl. de Melilot. de Ran cum 3 & io. The Ingresients of the Cataplasms are generally Furina Tenen Lini, Fanuguese . Eag. recent. consus. Rad. Lilior. albor. Catillorum, axung. Porcin. Se. If the Contusion is large & deep, so that you think it may be in hazand of alanguese, scarify it pretty deep, bath it well with Spiritous med! and afterwards

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apply your Suppuratives, or if a Gargrene be very much threatend, instead of the Suppurative's try it with tentisephis, or those that most powerfully resist Corruption, such as Scording hue, Chamomil, Janacel. mixed with Sph Vin . of Terchit got Uni Cumphont Sal ammon . Thereai Se . But of you are afraid the great Suppuration that may ensue will enlarger your Patient, prevent it by afsisting the Transpiration & resolving the catrowasaled Liquids, which may be effected by emolicent Formentations made with with Male. alth. Ranom. Darietar . Se. and resolving Cataplasms, such as the powders of these Storbs mixed with Galbanum Tipoloco, myork. aloes, Ho. ney. Ol. Terebinth . Sal ammon . St. It would be a vous ide task to run over all the formulas here prescribe, since no memory could retain them, but that you may at your leisure see them and thuse out of them, I'll refer you to the particul 2 lar pasts of the best authors where you may find them, as Barbett. Chirung. Lib. 2. Cap-9. Wiseman Lib. 6 Cap 3. Colloque Chirurg. Cap. 30. Boerhaav. M. M. J 384. In large Confusions the six Wonnahorals are cautiously to be used, of which we have already spoke? Wounds are very prequently attended with Hamorhagies, or large Effusions of blood; but I think what has been said on Wound of the exterys and veins may suffice for the sure of this Lyng. 2 tom . Inflammations very often sugarvene on Wounds by causing algangrene Sphacelus ix. This belongs to the last of Tumours which you have in the near Treatme in this Book, and therefore I pape it over at present, as lehewise

to constant attendent, Tever, because it belongs to the internal dis: eases, which are not soproperly the Object of Surgery. long wound is accompanied with more or less pain, since there is reway an infinite number of horves cut thro', and as many more so cale ed as to be in danger of being divided which I take to be the Occasion of all pain. noto from several Causes that happen in winds this pour may be so moreased as to affect the whole boy and disturb the whole Cheonomis, and be of the very worst consequence, by the Reflesness and Tolsing of the Satient, a Tever, Inflammation, and Gangrene may be brought on and ought there fore to be speedly presented . To effect which we ought to consider the different louses that may occasis on this pain; In wourses it may be owing to ciny extraneous body in the Wound which distends or prichs the parts, the Re. : moval of this Cause will take of the Effects, but the method of performing thes has been abeenly dolivered. Sharp pungent med? applied may produce the same effect, hanging them for miller make a fire; the half welling of a Merveron Tendon may raise very violent pain, as we have already endeavoured to prove, while : wise gave directions how to manage Inflammation and Tensuin of the wounded part is another lause, and therefore the in this Case the fure of this disease itself removes its Consequences -Sight Baroage or awrong position of the parts may produce puin, Changing of them always does it, and if we cannot so soon get the immediate Cause of pain removed, we are to endeavour to prevent its effects I mentioned, vir Restlesness & by shapifying the Sensation of it, which is done by narcoties. Of these opium is.

is the chief, as you were already told in the general management of the Monnahuals. I cannot mis to observe that all the Writers on Augery hands this Subject after a very ord fashion, for without ever considering the (ause of the disease) they give you as real number of the · ceights for casing poin, and don't brouble themselves to tellyon in which case such and such medicines are proper which may occasion the greatest mistakes. E. G. In wounds of the nerves or Tendons dublile spiritous medicines are ordered, in Influen omation, Lenients and Relaxants are used: Mound attended with any of these Symptoms are painful, I think I need not lell you how for the Surgeon sould eur, who, to alley the pain, would apply the first sort of medicines to the last soit of Wounds et e contra, it is so pluin that you must see it The last supervening accept to Wounds that I shall mention, is Convulsion, which is an alternate involuntary contraction of one or more muscles, occasioned by an under distribution of the Liquid un nevosum into these Organs, which in wound may be occasioned by any of these louises that raise pein, which of isdepend on, may be remedies, as has been just now discoun; Les to, or, it may have for its lause agreat less of How, by which the Brain, Crebellum, medulta Spinales, is not suffice recently supplied, and the fireulation not so regular in these pasts; The lune of this is evident, viz by supplying this want with new recruits of good Liquies, as decedes for ordering aright diet for wounded people, upon which its effect, Conoulston, must

thus cease.

Mou

for might jur hops expect that I should take into juricular 103 lorsideration Gunshot Wounds, as all their treat on this Subspect do, but these are no more than Wounds attended with ear traneous Bodies, and Contusion, and therefore it would be repeating the same thing over again to insist upon them—

Thus we have finished the history of general Mounds, 1 e. of these parts their are generally distributed thro the Body, some of which must be hurt in every wound that can be in the fitter, and therefore we may proceed to third of particular parts, where a particular method of management may be necessary, still keeping in mind what had been said in ger ne real, because to it we must hewe frequent References—

Wounds of the Head _

Here we don't take the Flead in the general large acceptation, but only mean that part under which by the Calvaruin or from the Eye brows to the undermost part of the Or Orupitrs, not including the rest of the face, the Wounds of which may easily be reduced to some of there which have abready come under our lonsideration. 'Tis likewise to be observed, that here we don't keep so strict to our first definition of a Wound; but likewise rank in that order all Contusions, Lacerations, Fractures of the Bones &c.

We shall begin with Wounds of the most external parts which

We shall begin with Wounds of the most external parts, which are the Seguments and murcles, these we judge to be hurt only first

104 First, from the poure and Shape of the Weapon that inflicted the Woune, E. G. if it is a sharp cutting Instrument, and the Wound is very long, we have reason, because of the Spherical for rque of the Head, to believe that more than the Sequents is cut, but if the wound is but small, we may hope that his not deeper; Whereas if it was made by apointed Instrument the exiter aperture may be but small, the it querce deep; but then we are likewise to examine with what force the blow seemed to be given, if strongly and a resulance warding it, so much the deeper probably, et eventra with the shape of the Weapon we are to compare the extent of the Woulne, & then judge how for the Weapon must have penetrated; Eind then if there is none of these ill symptoms that use to accompany deep wounds of the Head, we may still have the better hopes, but upon all this we frequently cannot rely : The surest way of being inform ed is, by seeing or felling, with our Junger, er rearching with our Frobe See Celsus Lib. 5. Caps. 4. It is a general Rule allowed by every body, and advanced by Hyperalis in the beyon. oning of his Treatise de Vubresilus Lajetis, That we are never to be rash in making a frognosis of Hainis of the head, because there are so great a number of Instances, where they have appeared very Sight and attended with no ill Symptom, yet after several Days have proved mortal. Hildan Cent. 1. Obs. 21. tells us of a young Lady, who warmed himself with Dancing, and Struck her head against a Post, from which there was a slight wound, the fewend no pain in it, and neglected is for two days, the thurs it began to pain a little, and a Surgeon Barber was called,

who thought nothing of it; the fifth she complained of pain in 103. her head, The sixth she was delirious and died. Timous in his Respon. Med. 5. Delivers an account of one; who for nine days found no brouble, but a lettle poin from an Wound of his head and went about his work, which was cutting and carrying of Timber; On the lenth day he turned convulsive and vied on the 11th Doleus, Encycloped. Chirung . Lib 1 . Cap. 3 mentions the Case of an Hanoverian, who was seved with a vomiting of the mouth, after a Contusion of his head; his Domiting was altind. In Scalpart. Vand. Weil Obs. Cent. 2 annot in Obs. 1. you'll find a great number of Observations from the best authors, confirming this, which depends on the Muscles, Tendons, Vefels, nerves, francism and Brain being so near, which may be affect, ed, the they don't at prit discover themselves to be hurt. Now, if the blow was given by a bruising Instrument, still 20 much the worse, for there is will the greater hazard of these parts. just now mentioned being lesed, and of a Consultion of the Brain, or if there is but a small caternal Orifice, and the wound of the part below very large, still so much the wome, because the mat. ter pent up there spreads into all the pasts about, turns airs, des stroys them, and thence may happen atrain of the very wont syry; tons of which Vander Wiel gives an instance from assinus in his Obs. 2. Cent. 2. Now, I would once for all descreyou always, to their Irogneshis to take along with you what has been saw concerning the forst. tution of the Patient, and Season of the year, in the general roynesis

106 and Indications -If it is a simple Wound of the Tequinents, it requires no other me there of cure than is already offered for south Mounds, only that you are still to be more cautious in the Regiment & heeping the air from 4, and defending it from too moist, oily, relaxing medicines, as then might cause a greater flow tof humours to the part, and be ready to corrupt the Bone, if it is bared; if the muscles, Tendons, Veins arterys de be hurt, they are to be remedied as in our former dis. course you have been told. Consusions have already but discus. sed, however that you may see the general directions applied to these particular lases, Consult Wiseman Lib. 5. Pap. 9. Vans. Wiel Obs. 1.2.3. Cent. 2. Mays Decad 5. Obs. 1. Berengar. de Fractur · Coanig Cap. 14 · 15 · Dober Encycloped · Cherury Lib 1. Cap. 3 - But if there is a great external wound with a Collier thin of matter, and a small external Orifice, we are to enlarge this, by with a Bistory or Suisans, and gue an Exit to the matter, and make way for introducing our medicines whose natures have been consessioned on in the general Trentise of Wounds, by which the ill effects that otherwise follow may be prevented, as Scultet. Obs. 39 well contions gadines an Exemple to prove the new pity of it . -The next part we come to is the Serieranium, whose wounds we may discover by the Touch, or of there is an Influence hon by Swelling happens after a Wound of the head, Garangest (asp. 39. apures we may destinguish whether it is owing to a

wound of the Deriostelim or parts above it, only by this mark viz. If the lars are swelled with the other Jeguments we may be

sure these parts only are affected; but if they are not tume: 10/. fixed, then the Derivanuim is lesce, because sours he, the Toguments are continued over the lars likewise when the Geriranium is not Now, it this membrane is only discovered or cut thro' and the bone bared, without a Contusion, Lofs of Substance &c. Even the the Te. equiments or separated a good way, or, as the french call it En Sambeaux, we are to statch up the wound and cover the Bone. See Several Instances of the Success of this in Garangest Cop. 3. But of this membrane is destroyed, and the Bone long based, This will be deprived of so much of its nourishment, the dir which in sime of deeping must necessarily have some aufs to it, especially If the precoution of making it warm at that time be not ob: served will contract and destroy the Vefiels, and congulate the circulating Liquids of the Bones, next to the dir by which that to yellow, and if it remain long, greeneedly darker, the it le. comes black In the mean inne d's continuity with the parts below is broken, nature thouses it off, and this sepa: : rated by the protrusion of the small sprouting Extremities of the Depels of ion, which is commonly called he Reforestion of the Bone, sometimes thes is done so insensibly, that we can't observe tt, and the Bone is covered over after that it is tuned black, as in Ruysch. Obs . 9. you may see this an: Swering exactly to Experience, in the first Observation of Vander Wiel Obs . 2 - Cent . 2 . ufter this Irry ediment is ze: -moved, these small Extremities twist logether, & form a

108. Met-work which covers over the bone, and new flesh is generated, Hence you may easily see that this Denudation of the Bone must make the luce more tediens, and worse thun in the former lase, whosefore to has lon it and to prevent whatever other ill accidents might happen from the francum being so long expone to the Cold, Air, Bolloste in his Cherurg, de Hospital Capita proposes to make several holes with a very small perforative of the Trepan as far as the Diplore from which the Vefels may easily be protruded, and from the several holes will soon meet so as to cover all the bone over before the air will heur such an Effect upon it, as to occasion any necessity for an Enfoliation. Before they did some thing (as they thought to the same effect, by rasping of the parts that were altered, but this could not miss to make a new Contur zsion of the vefsels of the Bone, and consequently ance Supe Expuration; at the same hime we are to prevent as far as we can any great flux of matter on the part, and shun any thing that might help to corrupt the bone, as all fat and watery things do, and therefore apply Spiritous orging medicines. The most recommended are strong Tinetues of mastick, myth & alors (See aquapend . Lib 2 - Pap 17) rokich preserve from justrefaction, and when the spirits by off (as they won do by the heat of the parts I these drying Gums are left by them. exclues, which cleanse and ony up the Matter, preserve the der from entering , heep the parts warm, and very much fure ther the generation of new flesh, especially of hahere be not Disturbed with two pequent dressing, and that in the time

of this the this be hept worm by a Chauffer with fore or some 109 such thing, and that it be speedily done, even when the Bone is foul and flack. This method of perforation will help the Ex: foliation, much better than either the Raspeng, Burning or Corrosives of the antients. The most part of Surgeons yet justract their cures, by expecting the Rafoliation so long, even when they apply Finel . Eughors . myrrh. and aloes, to The Shull itself when kurt comes next under our consi; deration; which may happen in several different ways and hence some authors have made a great many Divisions and Distinctions, to which they have annexed as many harsh names; Heppocrates in his Book de Vulneribus far : pites makes only five Sorts give Rima, a Jupure 2. places a Contusion, 3. Esquasis a Fractureand afterwards all these were divided into their different Spe. : cies, as in the first, when the Fifsure was large and plain to the eye, they kept the name of saxua, when so small as with great difficulty to be observed, then it obtains the age. pellation of Thixisyos. 2. Thas is either when the Francism is soft and yields unaining depreper or when in anoto person there is a mul: tylucation of agreat many small wounds which is the com; : mon notion of a Contasion. 3. The Fracture, of this they rechon three sorts, EXTTIES HO when any of the splinters prefs upon a pruk the Dura Mater; Avyis wha, when the fractured piece slips any way

under the sound bone, & Kapagasis when it rides on top ofit. 110 4. The fourthespecies Edgn' is divided into EKKOTT a perfendicular let, Diakorn, a Standing Put, that does not take the piece quite away, ANOKENASVis uos, when a piece of the bone is entirely slopt of. 5. and lastly, the Contrafifoure is of several sorts, for such it is rechanced if the outer table be whole, and the inner broke or if the Brain is hurt, and Vepels broke on the seasopper esite to the place struck; Or, if the slow was made on the one side of the head, and the Shull crackt on the other, Agreat many authors have doubted whether there has ever been a Contrasfisure of any sort, and truly, Gentlemen, This a very difficult matter to account how this last sort especially should happen; For my part I ingenuously com efels I cannot do it, and therefore will not trouble you will the great agitation the animal Spirits are said to be put into at that time, and the violent Impelus they have against the brancem, nor will I compare the brancism and Encephalon to an empty bottle, which struck on one side will sometimes break in the other, nor debate with you the nature of the subtile offluora, that are suid to be contained but produce such Testimonies as I think put the matter yeast controversy, not relying either upon any thing upon the authority of Supporates, Galen, Celsus, and almost all the Fathers of medicine, who barely affirm such a thing, the his might have weight with it too, since these Gentlemen_

Gentlernen seldom eifum any thing but what they have has confirmed to them by regreated Experience but recommend you to such authors as coen there have seen it . Juliop . de Vuln Capit. Cap. 13. says, he saw a young Gentleman who was wounded in the back part of the stead, the caternal Table of the Shull was sound, the internal had alarge fifure in it Cap. IN . he tells us , that I rannes Dieuno aperts po; sitively to have seen a fifoure on the part of the hear opposite to that where the blow was given . Wislaus Florentinus affirms to have seen a Cropsmaker, who had agreat loller: from of matter on the apposite side to the Wound! This fallogi. us avers himself to have seen, where was likewise agreat Contrision . Setrus Gaaw in his Commentary upon Syppour. de Cap- Vila. assures us that he opened the head of a young man, who died three duys after a Fall out of a fast, and found the external Table sound, but a large piece of the in: ternal separated, which had pieced thro the Falor, and in that same place tells us of another who was struck on the left Os Bregmatis, new the Lamboid Suhure, and the right was fractured July. Lib. 1. Pap. 2. gives an ausunt of one, whose external Table was very little heart with a bul! let, but the internal was shuttored. Scullet - armament . This . Obs. 14. relates such another Pase Job a mecheen thap . 1 hus avery remarkable instance of only a Contusion on the side where the man was firuch, and two fractures on the opposite. Parcy . Cap . D. Lib 10 . has several such . Bonetus anatom . Prout. Lib. 4. Seet. 4. has avery great Collection of such Coses, particularly Obs. 11. 5.2. One from Lopius, of one who

112 who fell from a horse, and got a wound in the Forehead, after he died, the figure was found in the Or Occipitis, and theren travasaled blood and Matter likewise under this last bone. 1.7.8.9. three such Examples are recorded from Fontanas Dionis in his beatise of Openations on that of the Tropen, has two ahin to this, and Garangest Cop. 29 has severals of thes nature; Hence I believe you'l evidently see the South of this maker, our . that a Contrafifure may happen, the perhaps you may not be able to que such a rational cler Now we come to the general ways of discovering all these different Lesions of the Cranium just new mentioned -When the Wound is not solarge as entirely to discover the Cranium, or perpays the you are aprired the patient has got a flow, fall, ye, yet cannot precisely discover theplene where the hurt is, I say, the way to come to the knowledge of it is, by examining (as Hyprotrales has very well bet rected us, de Capités Vulneribus) the nature of the Instrict ment with which, and the manner that the Satient access Led the Stroke or fall; for autording to the force of these we meny make some sort of Judgment, then the largene fof the wound and figure of the place, for a large wound can enot be given in a Spherical place without the Shell new rung agreat Risques; We must likewise remember the different thanknow, and consequently the strength, of some pents of the Thull by others, since the weakest are casiest Hippocrates linewise observes, that if the Hairs becut by

impailed into the wound, the Grancim is commonly baned, and 113 suffers the Probe which ought not to be les large, because it will not then discover small fractures or figures; nor too small, lest we take the natural holes or sinusities of the Cranium for discuses: this I say, by is covering the Inique tates will still more surely inform us . Hyprocrates him; self the father of medicine, and after him all authors order to give the Satural some hourd thing to bite, or puta thread between his Jeeth, and strike it, the washing noise say they, or pain ensuing from this will discover whether and where the Shull is affected; but these cannot have effect except in those parts where the Temporal muscle is attached as Boring. They I very well observes, and there tells, some people and particularly Lanfrances, presended to make This discovery we are now about, as is commonly done in conthon pots foir by striking the Shull with as mall button, and observing if it had a low house sound, which they rechoned a Sign of fracture, fifure be if we can come at the francum to see it, the larger Lesions of it are apparent, and we may judge of the leper by the discolouring of the Bone. Our Sense of feeling may help as much here, for when we are valled to a Patient whose Shull we have reson to suspent affected, by the foregoing Signs, but cannot exactly know where, we search all over his head with our fingers, and either the Inequality or spelling of the bone makes a discovery, or the Softness and Doppiness of the Teguments in that just gives us reason to suspect it; if none of these will

14 do, the Latient clapping his hand to the paines part may que us some light, a else we must have some patience and wait what Stipporal. Ecces Iranot. 501 tell us will happen, that before the seventh day the flesh separates from the Bone, the bone lurns discoloured and the follection of Sanies creates pain, and when that is evacualed it is ill smelled, and the Wound does not yield to medicines. Hence I think we may easily judge what the effects must be if it is allowed to continue any time after this fashion the bone must leven carrious, eind the Tequements be corrupted, and from which the greatest mightiff may be especially see Instances in Shink. OB. ined. Cap. 34. 35'. Tol. pag. 15' and theres fore no very favourable Irognois to be made; always however having aregard to the ocepres of the aucents? The Indication of luce must certainly be, to discover the

part and cleanse it; take away any thing that may hender the Recension, and then to heal it up. For the First, our discovering the part, I thall just now show you the manner of dring it, because it is in common to all the Lesions of the Shull, deferring the rest litt we come to the particular lases, as all of them have something singular. This discovering or baring the francum is made by cutting the Teguments, which may be one in several Forms

The simplest is a straight Incision that is used when there is no need of barring much of the bone, or where the

Malady is under a muscle, where fibres by any of the other 115. ways would be cut crop; as for instance, if it was on the under the Protophile Muscle -The next Incision to this is in form of V or angular, and is preper in the same Pases as the former, only there was a necessity of making more of the bone bare then before, The third is in form of a T, and that is practised when the Incision is to be made near to aslature, which, because of the acherence of the Derivaneum there and the Vehels that pass, we don't care for croping, and at the same time would have a pretty large aperture, one leg of it is made along the side of the Suture, while the other is carried from the middle of this away from the Suture, -The last of these Incisions is the Pricial, which makes the largest Opening. Genungeot in his 40th Thapter has one particular observation in performing thes, which I think not much amip neither our. Their after howing made the first Incision, and then cut the other to the mid, sle of it, we do not continue to do this lest at once, but lefting the knife, begin at some distance on the opposite sule and make them meet, for, sous he, if it is continued on, there is no resistance made, but the Teguments 160%. and your Incision is not made even nor is the Serieranium all cut, In that same hapler he also lells us, that some people, particularly armound, use this sort of Incision with Success, even upon the Temporal Muscle, tho it is Incisions are made with a straight or crooker Bistory, which

116 which you hold between your Thumb and middle fin Eger, supported by the rest, with the foreforger on the back of it, so that you may apply the more force to the Instru ement, then otherwise you could . It is a general Rule to cut thro' the Tequiments and Serievanium equally and at once, using the edge more than the point of the knife, especially if you have any suspicion of the francism being broke, or yielding, because if you plung o down the point you would readily degrees the Shull more. After the Incision is made, separate all the loverings of the Bones with your knife or any other Instrument you please to use, and go on in the fure, as shall be directed in the several cases mentioned which now come to be notice That they are to be look exern as affecting the francism only, without regarding the Encephalon or Contents of the Skull, which will afterwards come under our Consideration by its self The first of the five Species of Lesiens of the francism which we mentioned was the Figure. If it is large, after the In. 2 cision this soon discovered - The other Sort vix. Trixis pos or hair: leke fifure requires indeed more pains to discover it besides the general method proposed Celous Lib. 8. Cap. A. and all that treet on this subject, desire you to pour some Ink on the bone, then wipe It off with a springe or tad is the Inh will insinuale itself into the figure, and skew the whole excent of it, as it cannot be cleaned out there -In order to know of the figure the either large or small goes thro' the Jables of the Shull, Berenger de fracture 117. Crany proposes two methods, the first is, to squarabenaho the Talient hold his breath, or, as he expresses it, drive the der from the Breast to his head, if Fores penetrale the bruen then it is distended with the obstruction of its veins mude by this heeping in the breath, it will force out at the Chink any water that is ledged on the Dura mater, which will easily appear of the shull was dry before; The 2? manner he says, was practise by gui; do and Nuolaus, To me powder of mastail and the while of an log together to about the Consistence of hos ney, and spread it on deather and apply it on the bone; then letting it by aday, if the figure penetrates, they al; ledge the mashih must be orier on the part opposite to the fifure then any where che -Since these figures are so very hard to discover, and such a narrow perfage for the matter, they sometimes produce much worse effects then large Fractures, especially if not dilegently wired. For an instance among meny, I shall que one from Jaaw on Supporter de Vuln Capilis, of one, who ten months after a figure which was not observed was taken with a Verligo or Swimming in his hend and due soon after. The Bone was found various, and the bruen affecte. Wherefore the method of lure will be to give Vent to the matter, and cleanse it. The anti: conto her recourse / according to Styppour: of clous their Rule f to Rasping, which they continued as far as the figure went, I the most part of the modernis have followed them; only

118. Bullosle proposes to make small holes with the perforative as for as the Diploe, on each side of the fibure by which any extravasated matter may have liberly to be evalue ated, and the new flesh to sprout, which he backs with everal Examples, of the Sweep of this method. The rest of the lure differs nothing from what has been said of were ing the from wim, when spotted by being exposed to the Air, when the Geriranium is separated, or by applying Spiric tous and cleansing and drying medicines to the Bone with Digestives of to the Teguments -The second Sort mentioned is the Contribing The first man rner of this happening is, when the Shull is so soft that it gives way, and is pressed inwards without fisure or fran there Some people have buten upon them to dency the post estibility of this, particularly Garangert Cap. 39. but seve ral authors, allowed to be of very good authority, confirm it by compeles. Vander Weil Cent. 1. Obs. 6. brings several from Leserus, Riverius, muchettus, Scultet armament. thirty. Bereng. Cop. io affirms that he has seen this hoppen both in young and ole people, and gives as three Examples. Toba Mechreen Cop 1. gives us instances of this, one of a Woman whose hear he examined after her Toesthi; the other, of a boy, adding, that he has remarked it in several Children. Hildan. Cent 3.06.21 tells us of a hopeful smart Boy, of len years of age, who was rendered perfectly stupied by such adque prem of the Shull Parcy Leb. 10. Cap. 5 mentions this fort as if he had

It is easily distinguished when once the Teguments are 119 cut, and by the depression may be judged before and the hollow which you feel with out any crackling noise, as is commonly observed in Fractures. now the effects must be, the depression of the Brain which we shall consider afterwards; and the Bone runs a risque of corrupting in that part by the stoppage that its befelo sufer, neither will is grow out as it should do, besides the deformity that it leaves. Where fore we are to endeavour to remedy it as soon as we can, for which there are several methods pro , posed by authors, particularly Hildanus Cent 2.065.5. advises to raise it by the Satients holding in his heath, so that of it is but slightly depreped, the Brain peeping against it may without more ado raise it, or else oppler Expring Clapes or ruther Storms, which , you know, by ex. houstong the air with a Dump, or Sucher, which is much the better way, and now much more in practice, or by ras refying it when kindled flux is used, I say, either of these ways, the prepure is taken off that particular part, and that by the Expansion of the sir and parts within, it will be ruised _ The there Method he proposes is to I preud aquece of throng Seather with every strong striking Plaister, such as one made with Syx hamed Colophon Gum Elemi, or rather such as this . 4 . Farin . Tribie . 31 . Ichthyocoll (in aqua Beton . et Salv . solut .] 31. Dul. Mastin. Ehur. Farin vol sang. Drawn. Gyps. a 3 Up 97. et de. roque in aque Beton : et Sale. as justam Consistentiam.

120 then spread it on the Leather which is just as by as is requisite, and apply it with a String fasten'd to its middle; he advises it to be applied to the Teguments sup posing a wound not to be made; but I am afraid this might do more mischief than good for these Jeguments are not so firmly fixed to the Bone as to be capable of lefting it along with them, while he would be sure to make a Separation of them from the Veniranium, and break a great many Vepels, from which an Efusion of their Lequis and acollection of matter and their Consequences, of which al, ready. Whereas is had rather, as Freaw seims to design, apply this Plaister to the bare bone, and after it is dried and from by pulling up, the bone will be raised -The last menner of raising the depreped francium is, by paing in a Screw in its middle, and juelling it up by that. When once it is brought to its former stale, we are to filly the wound a foon as we can, by the method already proper. Led in the bared Shull; Scultes. Armoment. Chirurg . Jab 32. advises Surgeons to take none of these ordent methods, un, > les some urgent symptoms appear, but only after than ing the hair off, to apply a piece of warm Lambs shin or a Deapalma Plaister on the part, affected with conveni zent Bandage, by which simple method he assures us he had The Second Sort of Contusion is what should properly be so celles, vir a Multiplication of several wowners in the Bone, and this all allow may and pequently does happen; Itis not so easily distinguished before the Bene be land bare, only

by the difficulty of an Effluse of Sances; Sometimes upon the 121 neglect of this the bone may lurn carrious, the matter ende both outwardly and inwardly, whence the worst of Conses Equences; Such seems to be that lase peoposed by Shink lbs. de las. 34. F. p. 15 of a Gentleman, who after e Wound in the head with abullet was soon carep up, he laboured under apergetual Read ach for several years, having un. Dorgone several medicinal Courses in vain, till at length the Cuatria was opened again by a Surgeon, the bone was found black and carious for a good way: after the Separas : two and throwing off of which, the Fattent recovered perfect; : ly . This Consusion deffers nothing in its fire from that of the Spoiling of the Bone, by exposing it to the air, therefore to that I refer you, and past to the there Species of the affections of the Cranum, on the Fracture? This differs from a fipure; which is only a simple Solution of Continuity in one cone, whereas by this there is a precier more of the Shull separated wholly, or in part from the rest by a blunt Instrument, This is discovered easier than the fregoing by the general Aules for finding out the Lesions of the Cranis wis and is of the worst sort to wee; all of these require Inuit z sion or aperture. I told you it was divided onto 3 him's First, where there are several Sylinters broke of, which prick or press upon the Dura Mater; These must be removed assom as positto because of the mischief that the hurting of this membrane may create; of which move fully when once we have done with considering these Maladies as simple Lesions

122 of the bone, and in this view we are to remove them with our Forceps, since there is no hopes of their reuniting, and that they hender the evacuation of the matter, create pour, and retard the luce, or if they are not entirely segranated we are to raise them or cut them off. The Second Soil of Fracture is, when the broken price slips either wholly or in part under the Sound Bone. This is the worst case that does happen, because in avery short home it may destroy the Satient, and with the greates & difficulty we can come at it to remove it . But this belongs to that part of our discourse which breats of these Wounds of the head that disturb the Encephalon The There Fracture is the Vaulting, or when the front weed quece vides on the Sound; this is not quite so boid as the last, under the under part of it sink down upon the Dura maler and Brain . If it is quite broke off, is is to be laken away, if it is still contiguous it is to be reduced, or if that cent be done, the prece that handers the reduction is to be clepped of with a pair of clyping Forceps or Suspans, or sawed off with a small Sow, which may be of different figures according to the place and occasion . See Hildan lent. 2 Obs. 4. Lacey Lib. 10 - Cap - 56. Scultet . amament Chirary . Jab. 6.20. In all these lases we may obsorve that the Jappor Sition is of both Tubles of the francism being broke, and there. Hore the Dura Maler bared. Medicines first to be upplied must be such as are peoper for that membrane, then such as the Bones require, and lastly for the Teguments, but this we shall bet alone hill we come to the Operation of the Tropan to wood Repetitions.

1211. Vulniribus Cap. 22 rolates two Stories akin to this . and De Surgelala Lib. 9. Track 1. Cap. 1. assures us he had done it often with Suces : For it would be quite in vain to join the two bones after they were once separated, it would prolong the luce very much if ever it did at all. It is avery riding -low Story that I buttechreen in his first Observation letter us, viz. thut a piece of a Dog's shull was clopt into a mans head, whose names was Bytter Lyon in Rufsia: a Tartar had cut off a large piece of his Shull, which the Dog supple ed, and the Wound wered up, which a from as the Russian Divines got notue of they excommunicated him tell once the quece was cart out again, he adds, that this is to be rections among other Tables, so that the Cluther himself believed nothing Now all these different affections of the Shull require much the same thethor of (use, vir Shunning watery, vily, or col Medicines, to the Shull and applying Digestives, or Incar matives to the Lep's of the Wound without too frequent The last method in which the framium suffers is, by the Contrafifsure, which, if you remember what has alicedy been saw on that head, differs from a Tissure or Fracture in nothing but the difficulty of discovering it, which we can only do by the Symptoms of the Brain's being affected which may supervene, and any Alteration, as Contusion & Inflummation that happen to the Tegaments under which the Contrafifsure lurks whence we may easily see of when ill Consequence it very often is, and the luce of it when

discoveres, or of these lauses whom the Brain is affected, which 125 we come next consider; for you cannot but observe, that all along hether to we only mad the Supposition that the francism was hurt, without the Brain suffering by it, the for the most part it happens otherwise because the Brain is so near and is of so fine and lender a lexhare; whence in the yeneral Programis of wounds of the head we advised you never to be too rash in making too favouruble a Prognatie, since from very slight Pauses frequently the most patal Consequences have follows which I end envoured to evince by several Examples from au authors of the best & most undoubled Credit The different ways that the Contents of the Shull suffer in wounds of the head is Tot by pieces of the Sheek preping upon, wounding, or pricking the Dura Mater, Brain, or both. 2 1 By wounds of these parts by culing Instruments. of the Vefsels within the Skill. How any of these according to their different degrees may pro duce these following Effects or Symptoms, a great Swelling and Inflammation of the Face, external Teguments, and par huntarly the lyes, by the stoppage of the returning blood of these parts from the Compression on the Tinuses of the Dura Meder, into which their beins empty themselves, whelst the acterys are constantly throwing in more blood, Heavines & Drows ene's, when by the Compression of the Brain the nerves are so much obstructed as not to have afree passage for the Li; rquidum hervorum, Swimming of the Head on Vertigo by the

126 same Obstruction, and enregular Distribution of the Spirits, a Ringing in the leurs from the 7th peur of nerves suffering, Blind ness, the Optic Merves being hust; Delirium from a total irre Equilar distribution of the Liquidum Newosum in the Brown, von 2 mitting of Bile, a greater quantity of spirits being sent into the Stomach, makes it convulsive, and throws up its contents; Which continuoned, the Lever and Gall Stadoer are hand prest on, and forced to send out greater quantities of Bite into the Intestinum Duodenum, whence it is forced up into the Stomath and from thenie thrown out by the mouth; Fains of the Read from the Tension of the parts by the prefoure or Obstruction; Com vulsions, or alternate irregular distribution of the Spirits to the muscles, Palsys from a total Suppression of Spirits; the Urine and Faces alvine come away without the Satient's knowledge by which have the inferior parts of the modula Spinalis come to suffer apopleacies, nothing that the Vital Merves being fee; Fevers, as the Heart may be acted uponthe same way as the Stornach; and all may result in Death, the entire stoppage of all brulation. Whence we see how fatal they may prove, unless timeously assisted; first then, from these lauses where the pressure of the Brain occasions these Symptoms or some of them; this must be crowing to Fracture or Depression by Confusion, amongs to vast number of Authors that might be adduced for proving the mischief of Fractures only, See Julpius Lib. 1. Obs. 1. & 4. y Wiseman Lit 5. Cap. 9. Acta Bruditorum Lipsis 1712. and for the contrised Depression the same authors were cited to covince the existence of it oir Sob a Mechreen Cap. 1. Vander

thei lent 1. Obs . 6. and Hildan Cent 3. Obs . 21 sufficiently 127 demonstrate what they may produce -Our Intention of cure in both must be to take away the prefund or prishing lause, if it is a small prece of the frace tured Thull which is entirely separated that is the Course, we are to take it away with our forceps, but if it is not quite broke of, but deeply deprepsed, or perhaps if it has slept under the sound bone; either of which ways it is sofermly faced, that you cannot get it raised without some part of the first some being taken away, you must apply the Trepain, to make room for coming at it to lift it ig, and cure it as shall be directed when we come to that operation, which will be when we have enumerated all the Cases that may othinge us to perform it . The fure of the depression without fracture has been already delivered our by a stuhing plaister, hotsing in the Breath, or Screwing . The Second manner of the incephalon being lesed, is, by culting Instruments. These are the least hazardous, being open to our view, and leaving no extraneous body behind; unless by france it light on some large Vepel, and even then the easy auch to it and free papage of the Matter has made it more eased than if the same happened with fracture or fifoure, Tis true, that of the Cut or Juncture be so small that the blevod or matter is stopt up we are obliged to trepan ythe lure is the same, as shall be prescribed for that operation. In Fracture Jessure a lut we are to prevent the falling down of the meller on the Dura mater, or if it gets there, to evacuate it apoon as we can, for by stugnating there, it becomes done

128 - erodes that membrane and very soon after the Brown itself, Athe same is to be said of the blood lodged any way within the Shull These Effects you may sowin Shink Bbs. de Capit p.71. and Julpius Lib. 1. Obs . 2. Lamweerde Appendix Obs . 3. This Effusion of blood may be carasiones either by accelling In strument difecting them, or a violent Concussion of the head, with rout any of these; effects from all the three will be much the same with respect to the Comption of the blood and its Consequences; but this last is so different to discover, that low frequently it has proved fatal, as in Hypocrates de Mont. Vilgar . Libs . 5.50. we may see happening to a pretty young firl, who sports ring with a Comrade was hit on the Sinciput with her open hand, immedially she turned flind, and was without heath, afrom as she was brought home, a violent Fever sized her accompanied with pour in her head, redness of the Face; the 7th day near a supful of stonking readish water came out at her right lan and she seemed somewhat relieved and better; but the fever again increasing she lurned Lethargic, and would not speak, the right ine of her face was contracted, she became convulted had a difficulty of breath, and Conoulscen with Trembling, her tonque and sight faile her, and on the 9th day she died. Hel, rdan. Cent. 2. Obs. 4. relates a fase akin to this . Caleriol . Obs. Lib. 3. Obs. 1. tells you of a boy of 13 years of age, who was struck with a willow on the head, there was neither fis, sure, fracture, nor Confusion from it: The lot day he was in famed and attached with Consulswe fits, and a Palsy in the right Leg and left arm, and a fever and Belirium, he died the 11th day. And in his 8th obs. of the same book he relates the

Pase of a Vintner who was hit with a Stone on the head, he 129 Les the ht day and there was Sanies found in his Shrell. Bohn Vuln. S. 2- Cap. has three such stories. Bonet anat. pact in his 4th Book, S. 4. has a vast number from authors. If I may be allowed to give in Observations, I shall tell you of one Reid a Printer in the Jown, who was struck with a stone of the back part of the head, the Wound in the Tegaments was but small, he refused to be bed immediatly upon the blow, but walked near a mile into Town; that night he was the, and reset day, with proper medicines given and applied, yet inte of all he died in a few days, with the usual symptoms of Lethargy, Deprivation of Senses Ge When his Skull was opind there was neither fifsure nor Fracture, but only asmall ex travascetum of blood, and aconsiderable Destension of the The way of knowing whether there is any blood extravasated, or ordent Consupron, is, by seeing the Symptoms which come after, or heppen upon any lase that can produce them, which Tymps. homes we gather from these Observation's to be, Vomiting of Bile, which is already accounted for, the Diminution or Lofs of our Senses, Seeing, Hearing &c eccording the greater or leper Comprepion of the Brain, a Vertigo or Giddinep, Slee, pines and Desing, Palsy, Convulsion, Deliruim, Lethargy, apopleary, Trembling and Shivering, a Blooding at the Mose mouth, or Ears, because by the Confuepion the Brain, its Ves, sels are somuch obstructed that lettle blood will go by the Internal Carotio, consequently more is sent by the external,

130 so that its Vepels are very much distended, and those that before by Their open mouth sent out a thin Liquid for lubris ecating these Cavities are now so much ditated as to allow a perfage for blood itself, which will be sent in larger quant whitigs because of the greater sompetus given it. The last symp for is the redness and swelling of the face and Eyes; after knowing by these Symptoms that there is blood extravally ned on the Brain compressed, we are to find out the particular place where that flood is Endojed, or Compression; if it's owney to a Fracture, Fibure, or Contuition, his not so easily Berengar. mentions two plaisters from Bertaphalier, one is, Thur for Sation a Zing FA. The other is made by ading to this 1/2 the same quantitys of Terebinth acet for Fabar. _ The head is first shaved, then these plaisters applied for a day; wherever the Frankere is, say they, the plaister will be orger than ony where else . But Fallopeus de Vulnerebus Capitis, Cap . 3 · suys, he has tries them, and that they were mees trifles. However, it seems not improbable, that by the heat of some such Slauster, there might be a greater flux of Liquids to the Teguments above such aplace consequent they swell and turn red, and still more, if there was any popilitity of the matter paping thro' the Shull by ciny fifoure, or small hole. The Salvent likewife will (tho per haps otherways quite staped I recedely just his hand to the par that suffers, as I myself have seen severals do nor could they be kept from it. and Lastly, as Hypour de Vuln-Capitus has it, If the right side of the head be affected, the

left side of the body will be convulsed, and e contra, & 131. commonly on that side on which the matter was lodges becomes paralytic. The reason seems to be that where the blood is, the Mirves are too much compressed so as to be sendered useless, while a greater quantity of Spirits is sent by the other state, the irregularly. See an Instance of This in Hypocr. de morb. vulyar. Lib. 5. S. 28, and in Bonehis anat. Fract. Lib. 4. D. 2. Obs. 2. D. 4. There is apleun proof of this from Smetius, of one who was struck paralytic on the right side, where the matter was found extravasaled after death, and not before the wound. and ibid. Obs. 8. S. S. confirms at -I suppose it almost needless to tell you . That the Prograis cannot be very few our able, since in all these Cases the Brain u in so much hazard. The two means of lure are meds. and Surgery. The first of these should be of such a nature as to prevent any greater Efflux of blood, and to apist the Temoving of what has abready been extravasated. These are either General Medicines or Topical Applications; The first of there are Blooding, Gurging, attenuants and Lifsowents, Blooding by diminishing the quantity of our Liquids lessens their Impeters and maties the Vepels les distended; whenee it plainly follows that there is not so much hugged of more blood being poured out, that the broken Uepels will have a Setter opportunity of reunising, that the Obstruction is fairer to be removed, and the estravasaled matter more easily get init the open months of the Veins which are ready to take itry.

132 This therefore is to be done as much and as often as the Satients strength will permit youll find a particular auount of the good offects of this Evacuation in Wiseman's Surgery Book. 5 . Cap. 9 . Ols. 10. of a Gentleman who was beat of his Horse in Tollinham, and in several other ob. servations in that Book . Surging is generally recommended by all authors, particularly by Hypporrates de Ulceribus -These however should not be too thang and violent so as to increase the freulation much, or raise the Inflammation but only with a gentle Stimulus to commate, as they help to dipolve our Liquids, therefore prevent of truthens and have the same effects as Blowing in diminishing the Quantity; at the same time in case any matter, Jus, or Ja -nies is taken up into the mass of Blood, by purgatives it will be sent out of the body, and so prevented from falling upon any ther of the Viscera, as the Lungs, Lwer &c. as otherways it too too frequently does, whence the Takent may be hiller the his head be cured . See this sufficiently winced in Bonet - anat Brack Lib . 4. 5-3. Obs. 16. Joha Mechreen lap . 23. from the authority of several greatmen, and ways of accounting for it.

The proper Surgatives are Scammony, Sallap with proper for creators, with Sonno, Ahubarb, Aloes & whose Doses are to be accomodated to the Patient's Case, age, and Strongth—The Diluent and Diffolient thed! are commonly known by the name of Vulnerary med? and Cophalic Decockions. The Ingredients of these are very numerous; I shall mention some of

of them, and refor you to authors for the rest. agrinoma, 133. artemisia, Betonica Caryophylla, Auta, Salusa, Slyperii, Her. Lawendula. Shehaed. Clad. Tormentill - Frenicul. Schoselin . Ling . Santall. Album & Culoum Safsafras , Cas, sia_ The Decochions of these you may and Honey or Syr. Diviso . Sapav. Erratie . Seltor . Bals . for sweetning , Vide Hyppersat. de Vulneribus Mayor De Ingrepulas Infirmes. Lib. 2. Cap. 31. Caman. Obs. 86. 41. Borengar de Frachera Conij Cap. 13. Bar bette Lib 2 Cap. 8. Michael Dor u Jab. 2. Lap. 21 Wiseman Book 5. Cap. 1. 9. Boerh. M. M. S. 198. 281. which sower of them you cheese -Let the Sakent drink them warm, and in small quantity at once but very frequently - The Rest of the normationals mentioned for the Indications for wounds in general are very strictly to be observed in all wounds of the Head, but especially in the Pases now supported - now the To: meal medicines that are applied to apist this matter are of the same Rephalick Class, and may be either in form of Tomentations, Cataplasms, or Plaisters, which I recem, mended in Contusions; We design them to resolve and prevent to great a Suppuration; they may likewise be used here le advantage Some partaular forms you may see recon. mended by felsus Lib. 5. Cap. ig. S. 7. 0. &11. Berengur. lap. 14 and is has a good number. Michael Sorii Sib ?. Cap. 19.420. These sorts of medicines and lekewise to be applied to the hose and lars, especially if nature begins any Evacuation that way, as sometimes she does to the entire

134 lune of the Satient Vand Wiel fent 2. Ots. 15 lells us of a woman who upon a stroke with a strick on the Sarietal Bone, Rud these ill Symptoms that generally demonstrates the Brain to be affected, The was a little relieved by bloods zing, and evacuated by her lars a great quantity of a war Jory Jerous humour daily, and by this was perfectly and. This Case he saw himself, and relates another from Langelow much a kin to this . Itisan . fent . 3 . Obs . 22 confirms If this Method don't succes, but the Symptoms still ren main or increase, we are immedially to come to manual Speration, which, if neglected for any time, might prove of the very worst worsequences, as Hillan lent 2. OB b. tells us happened to algentleman who was entrusted to some Bur ber that would not go into the performing of the Trepan, and the Saturt res in a few days. Und Suellet. Obs. 9. The advantage of it is that we make way for the include matter, and can come at the descepted Bones to raise them, Tis true, that if there is alarge preced the Bone cut of, or the fractioned prices can be easily taken out, these perforations abready made may serve as well and therefore there will be no necessity of performing this operation of the Trepan, but we are not to trust to the evacuation of the matter throthe pores of the hall the it begins to do so, and sometimes has been attended with Succept, because the gro per ponts will not get thro; and it takes such a long time in being discharged wholly

that the Brain in the mean hime may be spoiled growings; de See un Example Seumenweede Appendia Obs. 11. bing wired so, yet condemns the prochee -The best place for opening for the Trepan is just above where the matter is loged . or shull hurt , because there are may esepect the most immediale relief; yet there are sevoral selen! Lions to the Rule, where is must not be observed - Hippour. de Capit. Vulner orders us not to perform it on the Julius; the reason is, that the Dura mater ashores firmly to Them and therefore would be lacerate in taking away prequest There are vefiels that run thro from that would be destroyed, the large sinuses run under several of them and they might be opened. We are to shun as much as we can the doing of this Operation, where there any considerable muscles, because by wetting them, the action or motion of the part may be lesed and perhaps Consulsions may be raised by their Lucration. Sence Shapour de Capit. Ouln de charges the temporal muscles to be ent, adding, thestif my are cut on one site The ther will be convulied, that is, the stiver saw will borown that way. However there is sometimes a necessity for cutting him, and it has been done with surey as Garangeot Cap. 39. Bohn Reaune. Vuln. S. 2. Can 1. You know that in the Or Frontis immedially above the broket of the Eyo, the Lamina of that some separate, and leave two lenge Cavities, called Si nuses, besides their ejou could not get the head of the Trepan but with great difficulty thro both Tables there, there would

136 remain a constant Stillucoum because of the muscles separated in that part felous Lib. q. Cap 4. therefore these Cavities are likewise to be shanned. There are holes in several bones of the francium, thro which pretty large arlerys and Veen's pass, these when wounded and rown back within the Bone, and very difficult to stop, asin bolsalow, therefore we are to avoid them . Muther are you to apply your Trepan in the inferior part of the thul towords it's Basis, because of the unequal thickness of the Bone, wherefore before one part was half thro 'The Dura Meder would be leveraled with the leeth of your Instrument in another If the bone immedially above where the brain is effected be not firm onough to support and hear against the force necessary for the Perforation, you must forker applying it there, else there is a risque of the Bone, Instrument, and all bogether being plunged into the Brain In case of any of these exceptions, the hear remedy is to apply it as near to the part affected as possible, hay some Ames when this canhot be right determined after per forming the operation the place that seemed most probable and you don't find their succeed and the patrents ingreat danger, you may make a personation also on the other sides; for you know that if it be the fame of the Fala an aporture on one The world serve, when the make ter to be evacuated is on the other . Verno . Wiel. Cont 1. Obs 3. gives an Example of one that has the Trepar 27 applied to evaluate blood and was weed, and another that was I homes trepan's. and IM. Boerhouse assures us he saw me that had the

Queration performed first on one side without Succept, then immedially by opening the other, was relieved -Now when the place is determined and the head shawed, you make an I musion of the Togaments as aheady directed, the Crucial Incision, if it can be conveniently done is best, because it makes most room for the application of the head of the repan, and that there might be the less impediment in the work, several authors order the Ungles to be ust of, then either dress it report till next day or of the lune seems binth or dry rags, and do the Operation then, for which the Patient must be placed in aright position, so that the place where the Perforation is to be made may be di reelly under the Suggeon's hand, that the Trepain may be perpenducular to il, and as such a height as will be most convenient and easy for the Surgeon, and in This posture he must be firmly kept by Sorvanto, all the while his lars must be stopt with Cotton or Wool, that he may not hear the Sawing of the bone. The Clir is to be made warm with thereford or Lights, and the Bone dried with (addice) or Spunge. Then after observing what he is to cut out in the middle of the piece, with the perforative he makes a hole for fixing the Pyramid in which is on the head of the Trepun; This Tyramid hoeps it form, till once by turning it round softly, there is a sufficient Genula or mark made by the beette of the modiclus, then he lifts it up, and with the Hey takes out the Syramid, because of that Itais on it would hunt the

138. Dura mater, before the hear of the Trepan cut the bone Thro, and if he has a mind, to use the series for lifting out the piece after it is sawn thro': now as long as it is form, he screws it into the holern the middle. When this is done, he again puts on the Trepan (the English Jun rageons for a while made use of the but is not near so convenient) holding it commonly open in his right hand then clapping the palm of his left and on the top of the manubrum or handle, and leaning his freken of the buck of his hand, by which it will be frimer, the Jurgern sees exactly what is done and what he does he removes the right hand and with it origing the mid & part of the Instrument lunns it round by which the teeth saw In fore, this he does slouly for we are by no means to hurry in this operation, lifting it from time to time & applying it after the same manner that he applied it at first, giving a lettle turn backwards to prevent its striking or its uneasi. inefs to come away; The reason of lefting it so often is to know exactly how deep he has gone, to clear the leeth of Trepan with a little brush; We ought always to be ready and to take out the Sawings with a pointless Sickboth or some such Instrument Jurman Sherary Curies Lib 1. log . b. proposes that an apistant or Servant should clur, zing the operation constently flow away with a Syre the Sawings, which hinders the turning of the Trepan, and retards the culting of the Bone, this way of soing he contawn till he comes to the Diplow which he discovers from the

Blood that comes out from its blood vepels, by the less re. sistance he finds because of its Soffnets, and consequently the (hange of the Sound . Beware however of trusting los much to your Diploe, for I have teen several Shull ahore it was quite obliterated. If the blood from the Diploc him. ders your work, stop it, by pouring in alettle Elleohol Vine, and proceed as before jonly more warily, more fre. quently taking out the head of the Trepan, and examin. ing if the bone change on the bottom of the cut parts from a white to a bluish Colour, if it is equally al not more of one side than another wherever it is least cut or thickest, there apply a lette in a force, trying with the Levatory or Screw if it begins to loosen, bring it away with the Levaler, Spatisla or wew, which last is the best; this you gently for into the hole it was introduced into before, move it from Siele lo Siele, hill the piece is quite love, then raise it stra , Rt up. you may easily conceive that by thus breaking the thin lone, several rough sharp prices will shik out, from the sides of the hole, which would be hable to prick the was mater, and therefore one to be cut off with the Lentuc as knife, so called from a Button in form of a Lens at the labemity of it Some chuse to deprep the Dura mater a lettle first, and separate it from its edges with the Memyophilace or Spatula, but the bottom of the Lenhicelar hnife will do it well enough. Hoto this knife from with your Jingers, if the bone is from round, supporting your Thumb upon it, if there is a fracture reaching

140. reaching as far as the aperture; _ m Setit, as we learn from Garangest Cap. 45, desires to support our Thumb of the Right hand that holds the Instrument with the Thumb of your left, thus cut off all the Inequality of the Bone - I might have observed, that all the Instruct Ements you now make use of should be a little warmed, because of any mischief that fold does to the Duca Mater and Brain. The best way, in my opinion is, to dip them in some warm spirits or any other proper Liquer, afsoon as the hole is smoothed, of the Shull at the Side is depressed introduce the Levator below it, and raise it up, taking were not to lean your Levaler on the other six of the hole, to make it serve as apren or Fulisum; because if thus you apply much Strength, will make a fracture where there was none, but holding the Instrument with all the fingers of your right hand under it, and Thumbabove, let your fingers serve as the Faterum, If there are any Splinters along with the Fracture, let them be taken away, wen there is a large precedy refreel, especially of it sleps under the Sound bone, one perferation is not sufficient but we are obliged to make several with the Trepan before we can come at it; if there is blood, Sanies, a Pus, between the Bruin and Dura Mater, you many cause the Datient helo in his breath pequently, or sneeze, tine at the same time with a Spatista gently degree for the Bura mater at the Experture, that when the Brain swells, the matter Blood

in at the hole, wiping it of with asmall bit of springe

& being preped mayrun out where least resistance is

which had been before dipl in warm flaret and the wine 141 expressed . In case the Blood or matter be lodged below the Dura Maler (which you know by the pressuberance and Change of Colour of that membrane, you may with a Lancet wrapt up in ladder in form of a Tent, aut thro' this membrane? This new Caution of concealing the Lancet is advised, because if the Satient chance to die, the ignerant Bystanders are ready to impute his death to this Incision. Now thes practice bears all the reason ining -gina de along with it, and is supported by the greatest au: Thorry after the membrane is opened, the sume means are to be used as in the former case -It is surprising to see how soon the good effects of this operation are sometimes observed in the Takint . I remem; ber to have seen a Soldier in morison's regiment at Stirling, who was trepan'd for a deprepien of the Thull and estra; vasation of blood after a Fall he was quite stuped the whole time of the operation, it in half an hour after recevered his Senses and his five which before was pro; -didiously sweller sensibly became lefs. __ After the Evacuations the Drepings are to be applied all agree in putting a sind on first, which is a round bet of Linnen with athrew and spread worns the its middle, or Caddus her with a thread and spread wound This ought to be somewhat larger than the Eyer hire thut it may slep alittle under the coges of the bone, and prevent any roughness there from afecting me Dure Mater. The michan great question here

122 here is, what medicines the Sind on should be cured with Colsus . Lib . 3 Lap. A . orders sharp Vinegar, but that destroys the Bones and irritates that membrane. avicen. com, zmends Ol. Rosar. Galen is for Sigeon's Hood, The French Surgeons cry up Bals. album Torovante, but without broubling you with a great Pollection of prescript Thens from authors, I shall follow Wiseman's achinice who is by all acknowled ged to be a sound Fractitioner and is in my opinion the most rational on thes head. If there is any appearance of blooding, he allows vinegar on Spt Vini and Mel Rosan and Tinet Myrrh. es alors are proper, new mer agyptici may be used, but when there is neither of these lauses, he recommends gentle dix 2 gestures and Liniments . What he mostly uses himself [which Fallopius & elquapend, very much recommend too) is Ol. Rosan with Mesin. abiet as with this mediene it begins to digest and diminish the of Resar and increase the quantity of the Resin . agrapiene Lib . 2 - Cays - 8 - de. zsures the same well to be observed; in het weather if you want it a little more detergent, put in the little more Mol Rosar instead of the Ol. __ The common way of applying any of the medicines you have is, to dep the Sinson into them warmed then just in to the aperture. But I think what Garangeof lage 40. advises from Mr anand is rather as convenient. To apply the Sendum dry, and with the end of a small Spatula slips its Toges under the Sides of the Bone, then to drop on the

warm medicine upon it, because, where the Sindon is wel 143 is does not apply near so well; Upon this they generally put around pleaget, then above that another, till the hote is filled up. But Belloste in his Phirung, de Hofpitlap . 13. desires us to have apreced of Lead prepared exact; by to the Dimensions of the head of the Trepan which was used, This has several hotes made thro it and has two handles opposite to one another, the round preced he introduces till it be equal with the Surface of the bone then bends the two handles over upon the external Suefuce. or which the plate is hendred from further slepping in, or prefung upon the Dura mater, while that membrane is hindred to be protruded outwards as frequently it does, & the Matter easily gets tho' the holes of the head & is in bibed by the Eddice or Spunge that he fills up the rest of the worden with. Mr Ochit, according le Garangeel Cap. 40, thinks this plate of Lead not sufficient to heep down fun. gous Excrescences & because the it has the bending of the handles to heep to from from slipping in, it has nothing but the prefing of the other Dressings to heep it from being prefied out; he therefore endeavours to prove that lon: trivance Thus; He has just such another preced of Lead, but without handles, and instead of them a thread thro' its mil. Edle which he introduces above the Sindon, then juits down a narrow by fear longer than the Diameter of the a: -perhane, with a thread round its middle, this being longer must be thrust down rand consequently must fix a little

144. upon the Twee of the Bone, which prevents the round pieces giving way outwardly. all I have to say to this Improve zment is, that in meropinion on Telet has not sufficiently quarted against the round piece of Lead constantly juris, 2 sing upon the Dura mater, and being ready to slip under the Shull, which would frustrate the whole design. Ufter the hole of the Shull is filled up, drep the bare bone with Spiritous medicines (which you may remember we mentioned, when treating of the Shull being bared) & fill up the wowns with Digestives, of which already: Over these Comprehes dipt in Digestives, E.G. in warm Claret, and squeezed out. Some advise to embrocate the whole head with Ol. Rosan or some such medicine, applying another pretty large Congress above the former, and over all the Bandage which is the great Cap, on that mede with Handherchif, but the first is best; if it be very cold weather a night Cap might be just above it; then lay the Saturd with the apertare on the most depending part, if it can be done conveniently, for the discharge of the matter, but be; Ecause (according to the common way of dressing with the plate of Lead this might cause the drepings peeps too hard upon the Dura inater, Somopeople make a stuffed King which they just round above the Comprehes, and so save The Compression, however, after Belloste's way this is needless. The Drefings are reviewed more frequently or selsom according to the discharge of the matter, and never but when that obliges us to it, observing every time to do it as quickly as wearn

and that every Thing about it be warm, renewing from 145 une to time the efforts for evacuating the container mat; to, in case it comes not all away at first or second dres; sing; when once the matter is all evacuated, and the Sug; puration goes right on, the little vefsels will begin to just of the corrupted parts above from the sura maler and francum and sprout out themselves, then increasing and luristing with one another fill up the aperlure and cover the bared Shull, this turns gradually harder after. wards becomes cartiloginous and thro' process of time The external Wound is wired by pyparrosis as in the general Eure of Hounds; but sometimes in spite of all the Surgeon's face, Excrescences, which some Surgeons call From St. Initais, will grow up, and that pequently to a great bulk, See July. Lib. L. Pay. 1. Shink . Obs . fol. p. 24. de Cap. 05.68. Itilan . Cent. 1. Obs. 14.15. they are nothing but the too las Uchels of the Dara mater or Brain professed. They are cured by Revulsion of the Humours another way, as by Aurging, Glysters & . Or, when you Observe the first appearance of them, spiritous medicines will do much to slep them, but if they are grown to any buch, Estringent and drying medicines, such as Sulv Jabin. Hermodelly . myrch mostich &c. If these don't prevail, gentle Escaroties, such as alumen us tum may be used; but boward of owlend inedicines, for these may produce very ill effects, as you may see happened in Hilden Cent 1. Obs. 14. or, if it grow very large, it may be cut of with a Ligature

We have reason to expect Succes from the operatur ifit es not in adangerous place if the Tymptoms abate and go off, if the wound digest night, if the Satist is of a good habit of Body, and has all the Conveniencies formished him het on the contrary, if it is in an ill part, where by the thin rep of the Skull there is probably agreat Loscen of the brain, or near the ferebellum, or whose the matter cannot easily be evacuated, or where there is large blood vepels, immedully below them; then, I say, we may be afraid the operation will not relieve the Satient. However, a doubtful remedy is rather to be alternated than let the Patient perish ine; witably. Or, if he is of an ill habit of body, as Consump Hoe, Rydropai, Josed, Richety, we may have bep hopes after the operation -These followings Jigns are bad Omens, the Continuation of the Symptoms of a lesed brain, or supervening of new ones, the onjucto and lived Colour of the laternal wound, the descolouring of the Shull, stinking Sanies coming out at the aperture from the Brain. If these come altogether, we may pronounce his Doom . In both these Trognosties we are also to take along with us the Observations deli; vered for wounds in general, of age, Sex, Season of the year &c.

Wounds.

Wounds of the Face.

The Face has nothing particular in it unless perhaps you may rechon that when the Salwary Duet is cut a opino by a wound . It differs from wounds of the Lymphahe lepels because they are both attended with the same Symptoms of the Effusion of a thin watery humour, and are both rudy to make the wound Callows, only in this the Salwary Duelo are worse to cure than the Lymphahis, because there are no other Vefsels with which they can communicade to carry their Legeor another way, which the Lyns sphatus have, and therefore are more easily and without danger stout. The only way of doing to shun the definity of a constant Stillierdum in wounds of the Salvary Duct and not to bereave the person of such a quantity of that useful and necessary Liquor, Spettle, is, to personate the Check entirely, if it is not so alreway, to make the wound all Callous, as it naturally melines to be, then to scurify the Callosity, or take it off with Escarotas on the other site leaving the Internal still callows, and to meannate and weed the caternal Brifier, as is already directed in the general we of Wounds by Sysarcosis.

The nech deserves no purhicular consideration neither, since its Wounds come under some of the general Classes, unless when the Trachealerteria is opened, but not quite divided, or that the it is quite but thro', yet its extremities may be brought toge. Ther, in either of which lases the Sight of the world and

148. The Clir coming out at it; the Patient's want of Voue and speech. soon discover what part is cut. All that is to be done is, to bring the divised parts together, to heep them so by the common Interrupted Suture, and to cure it like a simple Wound, which is soon and easily performed.

Wounds of the Thorax.

Wounds of the Therase may be divided into three parts; I'd Of the Jeguments on the containing parts.

2. where they penetrato into the fairty of the Thorax, with out lesson of the contained parts.

3. When these parts suffer - Of these in order.

We know that Houses are of the first sort when none of these digins of penetrating wounds appear, or methods we use for discovering succeed of which immedially neither here we much to fear from them, if they are duely treated the how they are somewhat worse than Wounds of other pents, because of the continual necessary motion of the Thorax in Respiration, which may somewhat return the Mellinin.—

Seshaps it will not be impeger to repeat the Reution ag! It whing here, because the threads will soon lear the flesh of make the wound worse than it was, in case the Weapon per retrated deep and obliquely without penetrating the far writes however. We are by no means to stop the squep of the matter by cramming the Orifice with Tents and Dosils see on compreping it: But on the contrary we ought to

promote the Evacuation of it by avoiding these Imperiments, else matter may gather, and eroding the Russ may dischan

iself into the lavily of the Thorax, whence that disease we 149 call an Empyoma. Such seems to have been as related by Shenk. Bbs . Fol. p. 275. 289 . From Hallerius . The ge . neral Rules will suffer for the lune The methods are use for discovering whether they penetrate into the lavity we by considering me manner the Instrument was directed of Straight and it cems to go for in then comparing the largeness of the external wound with the Weapon, if it is larger than such an Instrument would have muche without having gone for in These are Conjected tures of its penetrating. But for sure signs, place the Satient in the same justure he was in when he received the Wound otherwise the muscles shifting their Schuation would make the bryal in vain, and introducing a Silver scall or Whalebone probe, or a small was lande the same way you understand the Weapon was thrust, and you will destinguish whon you get into the Cavity by the want of such resistance as you would find if it did not penetrate If the dir rush out at the wound whilh you'll soon know by holding a lighted landle at the Orifue and observing the motion of its Rame or exhaction this is an infallible Sign of its reaching into the favily, or else of the Lungs being wounded if they are asherent to the Reura; In this case frequently one may hear the grumbling noise of the Air within the Thorax, and then if this air be stopt at the Thin either by change of the Situation of the Body on the Smalness of the Orifice and Contraction of the

150 parts, it insinuales itself into the Tunica Collubora and swells it up, as Butchers do then meat. This may spread very far as we see in Umbrow Parcy Lib 10- Page 30 happened to a Fustry look who was wounded in the Trackea Unterra. Vander Wiel fent 1.061.30. has ser everal Escamples, where from Wounds penetrating into the lavity of the Thorase, the whole body was thus flown up This Sort of Tumour is called an Emphysema, and is a sure Sign of a prenetrating wound. The last tryal is, by injecting some warm Liquer, as simple water, or with a little himing disolved in il. If the Would has pierced into the feirty, the water will not re hurn, et e contra; It is always to be feared in these Wounds that some of the internal parts suffer, wherefor at first the Irognosis is doubtful, but of no Symptom appear of such being wounded, nor of Blood being extra, : vasates, we are to cure it up, apoon as we can, like a Simple wound, First however, taking care to get out all the air that has entres, or introduced itself into the Cality, for if any remain, by its resrefaction and prefun it will much incommode the Lings in their action, when great Opprepion in breathing which often imposes on Sur Egeens, and makes them believe there is blood to discharge whence they keep open the Orifice with Tonts, as muy Dein 5. Obs. 2. tells us he did, and hept his Patient sui weeks under his hands, whenhe might have been sured in as many days. The best way of getting out this dir is, to

cause the Satient draw in as much Air as he can white the Surgeon keeps the wound close with his finger, after a hell Inspiration the surgeon lets go the Wound and the Patient makes a nisus or Effort of Expiration, while he keeps still the liv, as people do at the expulsion of haroned faces alvines, by thes nesus the air is prefied out at the Orifice, and immedially the Surgeon seaves the entring of it again in the Expiration lyholo. ing the Wound close with his fingers. This may be re. pealed so often hill no more air remains. Then I rop it up, and we it like a common wound by sypances is removing the drepings as selsom as popille. Mr. Boer, haave thus in a few days wired an English Gentleman who upon such a wound was thought by the Surgeons who first saw him, to be in a very dangerous condition, because of the difficulty of breathing he laboured under. But in a pentiraling wound, the the Viscera be not wound ; ed, yet if an actory is cut, which has poured any quen: tely of blood into the Thorax, the Case mustaller for the The Signs of blood being lodge there are that the Satient is easiest when he sits strought up, because the Lunys are least oppressed, being on his back the mest easy persure for the same reason this with difficulty that he can lyon the wounded seele, but cannot lurn him to the whole Side, because then the extrewasaled blood lies upon the Lungs, Heart, and mediastinum, and of there is blood

159 in both breasts, he can by on neither, but on his Back When he sits up he finds a great weight on the Drag hray and is sensible of a fluctuating motion of the Liquer. We are to evaluete this blood as soon as possible, else of ther is a considerable queentely of it, by the prefoure upon the Lungs it hinders Respiration, or it will soon corrupt and erode all the Viscera contained in the Thorax, whence a Train of agreat many diseases, if not Death itself. hor are we to trust to medicines for the cure alone, as mapa in Existle 2. Tome proposes, nor to hature's take zing it up some other way, as sometimes she does; Intan Wiel Cent. 1 . Obs . 34 there are a great many Instances of Dus being evacuated from the Thoras by Stool, and Obs 38 as many of its going by wine. An Uncle of mine was wounded in the breast as a Duel, there plainly appear. Led by all the Symptoms to be blood cottected in the lavily the whole he evacualed by Urene in the form of Pus. and Samweerde Obs. 39. tells us of one who evacuated the flood unallied by Usine. This however is not to be trusted to, because the Viscera may be enoded ever this does happen, and when that matter is got into the met of blood it may Evogo in the Lungs, Liver, &c. therefore if the wound is toward the lower part of the Thorax, we place the Satient so that it may be mest depending, then make him inspire as much as he can and keep it in alittle, at the same time proping softly back the Lungs, with some flat Instrument, in case they fell up to

Prifice, if the Rood or matter is thin, it will soon by 153. this means come running out, if the orique is too small we cut and enlarge it; if the matter is thick or blood w. equialed, we first inject some refolerent and diluent med? whas Barley water, Urine, or Decertion of mallows, Tupilago with some honey and a lettle Salt or Soap. and if you are sure that the Jungs are not affected, alves may do service, but if they are hurt, it raises alongh, and all these Bitters are very ungrateful to the Patient's taste, when he throws them up, When the flood is thus made then, it will much easier come away. But in case that holding of the heath will not force it out, we endea; vous to do it by Suction, which some propere to have some by one's mouth, or else introduce a very flesceble upe of a Syringe, either of Lead a some other very pliable metal, which is to be s mosth and broad at the point with holes on its Judes, when once this is introduced among the Liquor in the Thorax, by drawing up the Sucker of the syringe, you may such a good deal of it up-When the Wound is made in the superior part of the Thorax, and the Blood hus fallen down upon the Diaphraym, there is no posibility of its ever being evacuates by the Wound, wherefore we are oliged to make unother Experture at the lower pert of the Thorax, and allow the Wound to close up as soon as we can. The place for making the experture (if we can't count the Ribs) is between the third and fourth bastard Rib, rechoning from below upwards, and about

154 five Inches from the Spine of the back. The reason for cheesing this place is, that lower we might be in hazard of hurting the Diaphraym or preveing into the absormen, and if higher, the matter would not evacuate. Mearer the Spine we would cut the Dorsal Muscles, and wound the Intercostal artery, which does not for some Space come into the furrow of the Ribs; if further from the June the Patient would be obliged to ly on his face before the blood couls get out. If the Patient is so fat, on the parts so tumified that we cannot went the hits, we put his arm in the most natural posture, which is, with his hand on his breast, and measure four Inches below the inferior single of the Scapula, which with five Inches from the Spene will be much in the same place There (after the Fatient is places in a convenient per Ture, which is, inclining to one side and forewards) The Surgeon with his Eft hand junching up the Teyus ments, and a Servant doing the like at a lettle distance transversly mr arnand, according to Garangest Ep 28 advises us to take up the Latifimus Dorsi Chewise, if we can, then with a Bistony cut about three or four Inches length ways, of the Latiformus Dorsi'is net at first cut, do it now, cropsing its fibres, then divide the Interestal muscles by cutting them (with your Bistony having your forefinger all along the Back of it, and its point quarded with that finger I in the middle between the Ribs, and making your Invision parallel to the Ails, to

hun both the arterys and Bone, then very contrously 155 respecte the Sleura, eacefully avoiding touching the Lung with he loge of your Instrument; assoon as the least hole is made in the Pleura, the Lungs will contract, and therefore you nay make the rest of your Incision with the left hazard; yler the opening is sufficiently large you turn the Da. rent so that this new agertine many be in the most depending part, and follow the same directions as in the Grener Clase, for the Evacuation of the flood and matter. you will see in several deethers thes perferation to be some with a lauster, but that practice is almost quite net of coors, for it hazards the Baring of the Ribs or pening the artery, it is not near so quickly done, and makes the lune more tedious. After evacuating as much Blood and matter es you thenh convenient; for sometimes when there is always Collection if too much is taken away at once, by the parts being too suddenly liberale from the prefure they labour : ed under before, the Patient will faint and you meny endanger his life, which however is seldom the Case, when Thes operation is performed upon blood being only exis travasated by a Wound: now, I say, after a sufficient Evacuation of the contained Liquor, we are to strep it up; The common Directions for this are, to put in a Silver or Lend (anula flatten'd, so as the Ribs may not prefs upon it, crooked and smoothed est the Extremity, not lo heart the Lungs; with holes on its Side for the matter

156 to get onto it, and broad at the external part to preevent its going in, with holes for strings to fasten it if you think fit; or else to make a flatten'd Tent with point cut of and made soft, to which astring is fastned to prevent its getting into the (avity, or to draw it out aga if it has slight in . July . Lib . 2. Cap. 13 tells of one who heed a Tent suched into his breast and heed it there for see months, at last threw it up by his mouth frecovered Heldan. Cent. 1. Obs. 46. relates Such another lase. mr. Setel; as mr garangest afferms, cheeses rather to ley both these aside, and only puts in apiece of Linnen with a long tail at it, upon this a Dosil ties with a thread, then fells up the rest of the Wound with Dosils and Sledgets, alledgines that the matter comes away, nor is there any hazard of the Wound filling up, and the Lungs are sure not to be hurt, and to me this proposal seems to have a good deal of reason in it; especially if to mi Octil's you and Samsweerde Obs. 14 where he lells us of one who new missid to be known into Convulsions, whenever they attony to introduce Tents or any such soles bodies between his Ribs after a wound of the Thorase. above the Iledgels you apply a sticking pleuster, no great matter which, over that a large Comprete, and the Servit and Scapular. If you thenk the Plaister may hinder the Evacuation, either snip it in several places to let out the matter, or put on a Compress instead ofit, keep the Brifice thus open till once the matter is wholly evacuate

and no longer, else it may become fistulous, then cure 137. it as an ordinary wound. Observe the What of the Pakent is wounded on both sieles, you are never to discover both the Wounds at once, else you have and the Suffocation of your Satient; as also here fas well as in all other wounds that penetrale ente any of the (aurtys) theshir is always in home of dreking to be kept warm with a hoffer of fire, nay there seems to be large as much reces son for this precaution here as any where else, because desides the advantage of preventing the mischief that night happen from the ieto air, there is this further reducinfage, that by rarryging the air at the outue, ray of it that gets into the Caurty of the Thorax will not be so liable to occasion that oppression of Breathing, which commonly attends the admission of their clashie Heird, especially if at the same time the other clir of the hamber is heps cool, which being received into the air refrels of the Lungs will be in acondition to distend their Defsels, notwithstanding of the rarified air that may rufh in as the Querture between the Ribs. The Physicians all the while not neglecting to presure a right Regimen for the Patient, nor omitting repeated bloodings, unless he has Thereouse lost a great deal of blood, and then prescribing such medunes as may prevent putrefaction or any Hetruhens &e of which more fully when we come to here vounds that hurt the contained Viscera of the Thorax. -The Supposition we have all along made here you see

is, that there is a quantity of blood effused, but that the Vefels whence it tame are closed up, if they are not, then by mild astringenta njections of the Docochons of Flor. Ales rubr. Baloushor. Plantag. &c. and anointing what we introduce into the wound or aperture with these same son of medicines, as Bol. armen with the white of an Eggs we are to endeavour to stop it, and then it returns to the former (ase supposed: Eind bruly this is all we can do by Topical applications for any Wounds in the place who refels are opened, even in the Visura themselves -We come now to the last species of Wounds of the Thoras vix where the Viscera are hurt and the most of these in the Frognes is we prenounced deadly, 1. e. we don't know any Rules of art whereby they can be cured; the Mahure does sometimes work thiracles, and therefore the we fore see and foretell the imminent danger, Get we are not to leave the Satient entirely, but endeewour what afsis. Hance we can to Mature in what she does -Forst then, for Wounds of the Lungs, which are moster. spored to be hurt by penetrating Wounds, as being nearest the containing parts, and as felling up the greatest part of the Thorax: We know that they are wounded by the general Signs of penetrating wounds, and the frothy blood that comes out at the wound with the coughing up of the blood ascertains it to us. The Prognosis is abready delivered, or If these wound are large we cannot expect Success, but if they are small they the they may be cured, but at best there is a great deal of ha: 159 Jard. All we can do for the lure, besides the general direction for Wounds, is, by repeated bloodings to empty the Velsels, that so the Circulation may be more languis, & therefore to les blood poured out, and the Vepels more contracted, con: requently lehelier to reunite, apisting their Coulition, and itopping the flux of blood by gentle astringent Injections, with as we have abreedy mentioned, avolving every thing that has a very newsebus taste, because some of It will be thrown up by loughing: and lekewise avoiding these men! hat stimulate because they will provoke coughing and hinder the Reunion of the divides parts. The internal med? with as are of a Balsamie mile nature, as to cause no peat simulus, and to preserve the Lungs from Putrefaction which may have the worst Consequences; Such are those that are commonly called Sectorals; among the most common ne adianthum, agrimon. Heder Grest . Leypop, Scabiosa Scordium - Tufsilago. Rad. (hin . Bardan . Lequorr . Sar . Saparil. Lign. Santal. album fetrin. Tues, Dates & Raisins. These in Decoctions - Galban . Oliban . Bassam Tolud. Terus. mel. Sperma Ceti Myrrh Mashih. Shese n other forms. Consult any of the Dispensatories and you'll we long Catalogues under this designation in pectoral medienes, particularly in michael Part. 1. Lib 3. Boer haave's m. m. S. 850. 851. 853. 858. 859 Sc. I need not produce testimonies of lures being their performed. all the Observators have numbers of them. If the Pericardium is wounded, which we judge by the

160 manner and length the weapon was thrust in and the war tery Liquer that runs out of the Wound . The Heart, author and Vena (ava) produce the same The nomena when wound ed, which, according to felsus Lib. 5. Cap. 26. S. 8, are a execus impetuous flux of blood, a weak pulse, very puls (down, loto Sweats and these frequently ill smede when such person, and at length the Extremities turning cold all that we can do in these cases is to support the Patient a little, not however by stimulating medicines, and by meeting Compressions on the returning veins of the drms and Legs, to allow as much blevod to go by these peuts as is absolutely necessary for heeping in the life. Inever heard of any being save, get stall it is well done to preserve the Patient as long as we can. The Gula and Asophagus run down the Thorax, if it is quite divided, there is no curing of it; but we may nourish the Patient with Glysters. If it is only opened, it may easily enough reunite, if it is not kind red by the food given by the mouth; these wounds we know by the aliment mixed with any other matter that comes out of the Wound . -The Ductus Thoracious is Discovored to be open by the thin greyish Sequer that discharges itself. The Satient not being recruited by what he takes, but on the contrary, insonsibly hurning weaker and emaciate, and sometimes after he has cat or drunk any thing, the discharge of theet Liquor is more plentiful, and its blown whiter than at other times. We may try what listringent medicines we

do for dosing it up, in case it should only be asmall 161. puncture, or the only one of the Branches is cut, and except it is one of these two Cases, fondamation est, the Patient must die. We know when the Diaghnagm is wounded by the draw, ing up of the Fracordia there is a pain fell-at the Back. bone, Respiration is performed with agreet difficulty and Pain, the Patient endeavouring to perform it all by mus, des_ If you'll consider its Origin, structure and Inser. tion, it will be evident that wounds of the nervous mid. rif always prove deadly. All we can do for those of the seeky part is, to be very cautious in the Use of all the Mon. naturals, to stop the Flooring, if there is any, by astorin ? gents, and enseawour their Revenion by injection of gen. the bulsamie medicines. Very frequently even after very small wounds of the Draphragm, some of the Viscera of the aldomen insinuale themselves into the Thorax, of which Bonest . Anat. Pract. Lib. 4. Sect. 2. 065. 21. has nine Examples collecter. It is next to impossible to determine certainly when this is the Case; and the we should, from the difficulty of breathing by the Lungs being shattered, from the want of appetito, or frequent Pholick pains, yet we can do little or no service, the Patient may for some time live miscrable, in this Endition, but will be brought to hes Grave by it at length -If the Mediastinum is wounded, pain immediatly is fell below the Sternum, and we may judge it by the depth

162 the Instrument was thrust in, and the Direction with which it was done; but as this part is not one of these immedially concerned in lefe; there es no greet hazard in it, unless some of its large stood Vepels are cut, then it is to be treated the same way as any other part in the same condition where neither lyes not flands can reach. We just now hinted at this method in the cure of a woringed Diep hragm Wounds of the Abdomen.
Wowns of this points may be divided as we did these of the Thoras. It of the containing parts with perforating into the favily. 2. Where they reach into the lawity but hurt none of the trone of 3. When the Viscera are wounded. We know them to be of the first Sort by examining the direction of the Blow and the length of the Instrumen that was thrust in, by placing the Outent in the same position he was in , when he received the Wound, and intro Educing the Frobe the same way the Instrument went, and then by any Liquor we inject into it immediately re-Hurning They differ either in their Trognosis or live from common wounds only with the's difference, that in case they have gone deep, and avery firm fratrix is not made upon them they may give way to the prepure of the Viscera, and a Hernia may follow upon them, therefore by right bandage

in the time of the cure, and afterwards making the 163. tient been some band or machine for compressing that past, re are to endeavour to prevent it. The same means as in the for mer Supposition will discover I there wounds penetrale into the Civily and then the Omen! um or Interfine generally present themselves at the ori; ne not huri when no Symptom of Pain, Inflummation Lever, Fainting Je supervene and that no blood freces. hine Bile be come out at the wound when just into the nost descending position and that the Liquor that was in, sected comes out untinchined and mixed with any him of natter. Frequently enough it has happened that people have seen merced quite the the Belly, and not one of the Vis. eras hurt as Wisemen Lis. 1. Cap. 8. muys Decad . 5. Hos. 3. sufficiently coince when we so that all the Vis; cora are safe, we are as soon as possible to close up the wound, first taking case to get out all the dir, which remouning within produces several effects, as is abreary moved in our discourse of Wounds of the Thorax; If the In. Estimes come out at the Wound as they are very out & liable a do, and are not hurt, we are immediatly to reduce them by reping them gently in with our fingers, If they have been any time out, we are first to forment and warm them by applying any little animal cut up alive to them or using Kupes squeezes out of some emollient secochion, as of Chamor mile male Bis male Mercurial . Le boiled in milk and

164 Water . But if the Orifice is small, and a good part of the In =testones thrust out at it, and these filled perhaps with air or Freces, or if much inflamed, so that they cannot go back as they came out, we end carow to remove the Inflamma : him and soften the faces with these formentations, or by man 2 mg some small holes in the Gut with the point of a round heedle, which may separate the and not cent them we give an Exect the air, by which means they become so much softer & less as to return, but yoully preping into the abdomen . But if that does not ruceed easily, we are not to endunger the Contrision of them by using violence, introducing them, but must make the wound larger, else in a cell be home by the prepure upon them at the tround, the fire culation may be stopt in them and they mortifie; in that Case the afterture must be enlarged and if the Epipiloon come out and morrifie, it must be hed and cut of . When these are reduced, they order the Satient to be shaken alittle, that the parts may be brought into their natural position, again Then to proceed to the Gastroraphia, as in the Oper rations, and here you are to observe the same Rules as in the Interrupted Suture for beginning the lying of the threads if there is no blood or matter evacuated within the Abomen or The Smentum sporter, It is to be defeed as other Mounds with Suture and proper bandage which is the maphin and Scapular after embrocafing the abdomen well opply on it a large Comprete digit in Spr Vini, and of Ros. cour croc warm Claret ge authors openerally moor a soft

pointed Tent with a Thread in it to be applied in the 165 lower part without making any Supposition of Blood, matter, ge. being lodged there, in which fase only, and that when you are aboured of it, the Tentes of any Use, but rather very prejudicial first, frets the parts, brings on Inflammation, and protracts the lune. In Example of this See in Wiseman Book 5 . Cap. 8. Obs. 2. Nay, Garangeof is of opinion, that Tents at any rate are fine, judicial here, because, says he besides the Inflammention and pain that they occasion, they rather hineer the Evacus. ation of Jus, Blood, or Janies, which by reason of the Me. traction of the Lyis of the wound, would have liberty ex nough to come out without Tents; When the omenhum is Ties, the extremities of the Thread that hies it are to hang out of the Wound, after the Stitches are made ___ After the dropings are applied, lay the Patient so that the Wound may be lowest, and he may by upon it, by which the matter, if any is contained, will be more feely evacuated and no hazard of any falling from the Wound into the lavely of the abdomen, prevent fever and Inflammation in the part by bloomy, spene Diet, and Requent Injection on of warm flysters, go on in the rest of the Ture as is already directed in the general luce of Wounds by Sym. physis, observing only, in case the omentum is he's to draw out the Thread, when once the mortified part is sepas We come next to Wounds of the Viscera contained with. in the absomen; In discovering the Lesions of which,

166 we must compare the Directions of the Thrust and the length of the weapon penetraled with the situation of the Viscera, taking along with us the posture in which the Gatient was, which may alter the position of the parts much; then observe the Symptoms, as Pain, fe ver, Inflammation, Syncope & which happen after it and lastly, See if the Contents of these Viscera come out at the Wound. ___ So much for a general way of discovering; Which premise we come to exemene the particular viscera? and First, of the Intestines, which take up agood purt of the abdomen, and are defended the least of any of the Discerd. Upon Wounds of the Intestines these Symptoms generally follow, a Tension over all the absomen occasioned by the peun in these Wounds; If the Small Guts are hurt, the aliment somewhat digested comes out at the Wound; of the great, then the Faces are evaluates, and the Dres. = sings smell of them, Blood is excreted by Stool; or some ztimes, if it be in the superior Intestines, is vomiled up If the Intestines come out at the external wound, you either see the fut, in them, or are confirmed there is one by the Hacidity of the Guts, for the air that usually distends them has escaped by the aperture -The Prognosis cannot be very favourable, as we had our sion to Semonstrate alreedy; If the Wound of the Gut is not soon discovered, and not very large; we may heal it as if the Teguments only were hurt, thereby we show the exposing of the Intestines too much to the tait, whene a

Gangrene might follow, as we see July Lib. 3. Obs 20. 167 Haming a Surgeon very much for taking too much perins in seeking out the Extremity of a Gangrenes Gut, and we see Several examples of this fase. Variola Sib 1. Obs. 9. tells of a young Gentleman, who acceentally shot himself into the belly; a few days after he paper the Bullet by Stool and was perfectly cured . Hildan Cents. Vis. 74. gives the history of a Weaver who was wounded with a sword in the absomen; ayear afterwards the point of it that has broke of and lodged in his belly all the hime was exceined by the anus. Mistoire de l'acad. des Sciences 1700. 5th Jebry Inr. Littre reports the luse of one who had several wounds of the Intestines, and get recovered. Bohn Sect. 2. Cap. 4. utes agreat many authors to the same purpose, yet for all that concludes them deadly wounds, since art has no hand in the fure, but this thiefly the work of her. ture. All we can do is, to order a strict Regimen, hope the fuls as clean as we can , and forment them by requating lylysters, unless it be the large Intestines, for then the Injection may get into the lavity of the abornen, and so viente abundance of mischief: If the wounds of the futs are large and we can come at them, we must sew them up with the Glover's Shih before we reduce them, which is done in the Operation of the Gastroraphia. The last way that the Intestines may be wounded is,

168 when they are entirely divided . If this happen in the superior smaller Intestines, there is no possibility of escap The Satient must one; but if it is lower down, and we can come at the Cul's inferior Extremity, the Patiens may be and has been saved, which only can be done by Stitching this Superior part to the external Wound and so making a new anus, as you may see in the alla Ericeitorum Sigisij July 1682 and august 1712 and in the memoires de la lieur des Suinces 1700. m Litre a pures us he has seen three men and one Woman in This Case In these same memoires MOI me May selates the fase of a young lirl who had a new anus this way made, and that afterwards by rubbing herself in her Camber suffered a Procedentia Uteri here the some way as the Colon falling down or the Rechim, If we can come at the lower Extremity of the difected Intes; I me we ty it before we statch the other to prevents its Consents falling into the Cavity of the absomen · Courtail Obs . anatom . b . tells avery strange story of a Girl, who laboured under a Bubonocele. The Tumour suppurates, the Gut appeared gangrenes, and the fourements come out with the Pus; the Surgeon eat off half w foot of the Intestine and wired the wound without any Inconveniens to the Satient, either as to the trecetion of the faces, or return of the Herria. Wounds in the Stomach, we told you in the general Irognosis were inwalle by Art, yet because some Jurarisma

surprising Instances of luces and handed down to us, 169 we may endeavour to apist nature to whom we owe carry good in this lase that is done. We know when the Vis. cus is wounded by the general method of observing the place where and the direction wherewith this wound is given, and how far the weapon genetrates, and then by the Symptoms that appear, which, according to felsus Lib 5. lap. 26. S. 15 . are Singultus or Fricup, which is a Convulsion in the upper Orifice of the Stomach and Dreighrougm, orderconed by the Sympathy of these parts from the Communication of their nerves; with this Con; coulsion they are drawn up suddenly and as quickly full down Constant Cometing is owing to the Control, swe Contraction which all wounded parts have, If the Weapon has pene trated into the Stomach and any les. selis hurt, blood will always be thrown up, the meat & Dronk taken comes out at the Wound, the pulse is weak, then solo sweats arise, the Extremities turn colo, which last Symptom only happens, when the Circulation begins to lurn weak, either from lop of Blood or the Patrent be ing made faint by the constant vomiting The Grognosis here is very unfavourable. Some propose to stouch this wounded peut of the Somach to the Teguments, and in Vander Weel Cent 1. Obs. 39 we see that two were word this way, Durman Chirtury, Lib. 2. Cop 2. assures us he has performed this Operation in severals with Succep, the I believe there must be a great deal of Difficulty to

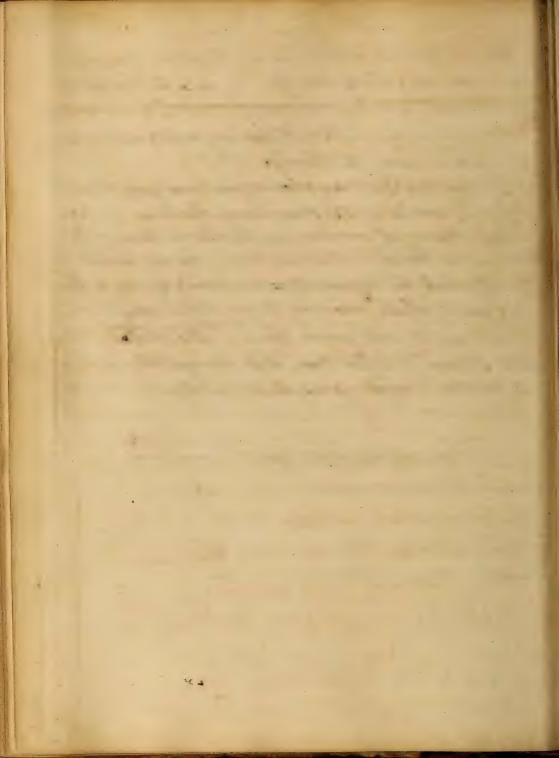
170 come at the Stomach. However, this with the general mether of curing Wounds is all that can be done or attempted as to the Chirurgical part, and whether this is done or not, we ought to heep the finulation low by plen 2 Inful blowsing and avery spare Diet, rather using the tritue glysters made of Broths, than aliment by the mouth, heeping avery strict Regimen in the other hon, znaturals; So by this we may prevent the great Thomorn agre and the Convulsion from the Vepels of the Stomach give The dwided Fibres an opportunity to unite and hender any thing from fulling into the lavity of the abi relomen. Diemerbrock. Anat. Lib. 1. Cop. b. lells us ofine whom he thus cured of an Wound of the Stomuch without Stillhing The Omentum cannot well escap on these Wounds but affords no remarkable Wheromena, unless when it's blood Vehels are opened. We know the Liver is hurt by the flood that comes out the Wound in large quantity's sometimes with a lettle bilious Mischure. The pain in that part, which likewise is communicates up as far as the Nech by the drawing in of the Proceordia; the Patient pequently has a vomit. zing of blevo & other times perfes it by Stool - This joyned with the general method proposed, which we must lake along with us in all bounds of the absornen may give us ground to thenk that the Liver is heart -The Prognous is never good, all that can be some is, to observe

observe a strict Regiment apply to the part astringent 171. medicines, and by resolvent wilnerary Dewochons prevent an absceps in the Liver afterwards, which too often happens in a you may soo in July Lib 2 . Cap . 26. The Gall bladder discovers isself to be wounded by the better yellow Bik theel comes out _ The Signs of the Spleen being hurt differ nothing from the wer, only the Blood is blacker. The Sancreas lies so deep and covered with so many o: ther parts, theet we connot well know but only quels by the general method when it is wounded. The large Veins and arteries within the absomen are known to be wound. ew by the impetious Efflux of Blood, the cold sweats, and Faithings of the Salient. The marks of the wounded Ridneys are Dain & Tension in that part, a then watery blood coming out at the Hound, and Hood evacualed with the Urine which is voiced with difficulty. There is not much to be promised on the line of any of these Wounds, and the wee is much the same with that of the Liver . The Ureters are with difficulty dis, singuished, and can not well be wounded without some other part being likewise so hurt. However, we have reason to believe they are hurt, when upon a wound penetrating the lavily of the absomen, agreat quan, tely of an Urinous Lymph is constantly powered into that lavity. all we can do here is, to preserve the Patient as long as we can, by letting out the Ligier,

174 and giving bet small quantities of Drink that there may not be a large Secretion of it, together with the strut general Regimen. The Bladder soon descovers its wounds by the Unine that comes out of the wound . The superior part of it in my opinion is easily cured, if the thound is made by a cutting Instrument, it may be wired by the first Intention, by performing the Gastroraphia, and shitching the bleed or along with it. It is true the antients rechoned these membranous parts very dangerous to be wounded. only look into Vander Wiel fent 1. 065.8. and Bohn, you will see great numbers of Instances of fures. I shall only and one of a Soldier at Striling, who was shot into the Bladder, whence the bullet was extracted by the Surgeon, and the follow very soon wired after . When the fure is made by Sypariosis, the Intestines some. Somes presses hin on the funtria and occasions an Hernia, as you may seven Augseh. Obs . 15. The Womb is not well discovered to be wounded nor car -sily come at, unless in Those that one with hills; then in. · closed it is of the worst fonsequences, by the produgious Effect of Blood. The only way to save the Woman is to bring away the (hild as soon as popule; for after the Woman is delivered, the womb can contract itself, the divided Ve full are per find together, and their mouths slopt and the easier acceps of the Blood into the lavity of the Werus, in the coming away of the Sochia then thro the wounded Vepels will help to stop the Hoemorrhage by the wound

on which the greatest hazon depended. 173 Now, in all these wounds we are to prevent as much as we can any thing from falling into the Pavily of the abdomen, to hinder the accept of air, and not to allow what is there evaluated to logo any time, as it must corrupt and destroy the Viscens. By this time you may observe we have yone thro' the different wounds of the three large favities. In the general history of wounds we louched of these of the Seguments, museles, arteries, Veins, nerves, Sendons, Ic of which the Extremities are made up as to their soft parts, which, according to our definition of an Wound, are the only proper Object of this inalledy: there; fore I have discussed them, and consequently finished all that we disigned to say on this Sugget -

End of the first part -



Index of the Treatise

Mounds.

Thomen is wounds ____. Nir how Chosen - - -Hurtful le wounds ... Aneuresm bastard ____. Aneurism true Arlery small wormes of them sometimes dungerous When cut thro' how flux to stop . .. arteria Trachca cut thre'. Bandage uniting when used - - - -Bladder ets Wounds . . _ _ _ Blooding when induated -Blood extravasated on the brain how discovered Bodies extraneous how extrailed . . . Boyle's Balsam for green Wounds . . -Eventrise herr brought on -

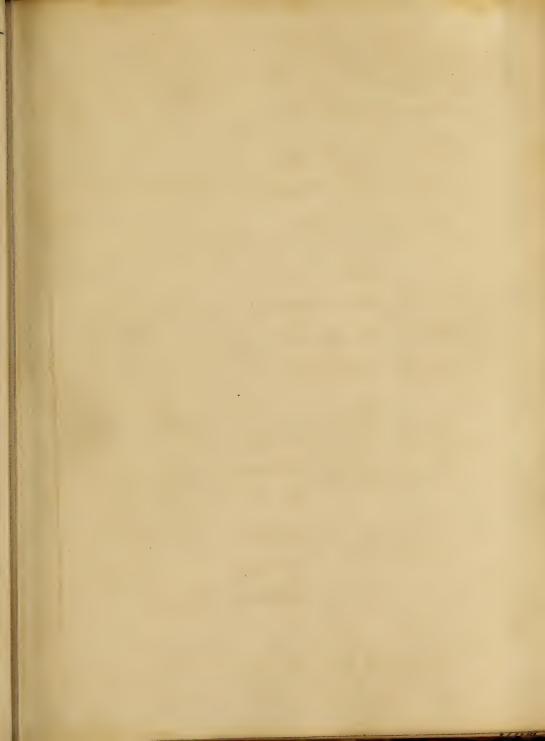
Contra Pepure Consusceni what Convulsion how to remove. Cranum its Wounds. Cutto of the Shull Diagnosis of Wounds Draghrugm ets wounds. Deaier is what Diet Spare in Wounds -Biet right conduces much Diseases the Satient labours under regarded Dressings what how of unione - - how performed Dry Suhure Ductus Thoracions wormder Elder Sith its use -Empiries how known Emperoma the operation . Errors of the nonnaturals

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Scien its removal Pancreas its Wounds Sassiens to be avoided -Thomomena of a Smiple Wound . Setits needle. Stillet -Instrument for howing needle .. Instrument for thrusting it ... Tyramidal Compress. -Soricianium its Wounds. Prognosis of Wounds . Prothesis what Surgatives strong when to be avoided. Rest recommended. Sull its wounds . Single headed Roller Sleep how prowered Syparcos is how performed wholly the work of nature -.

Spleen its Wounds _ Spunge Tent its Use _ Stomach ils Wound Sutures how many when used Suture of the Tenden Synthesis what -Tendons their Wounds Thoras its Wounds . Trachea Arteria cut Wound, its Definition Wounds of the abdomen Nech Thoraui Duct Venery its acts to be avoidée





The Second Part
being

A Chirurgical Treatise

on Jumours

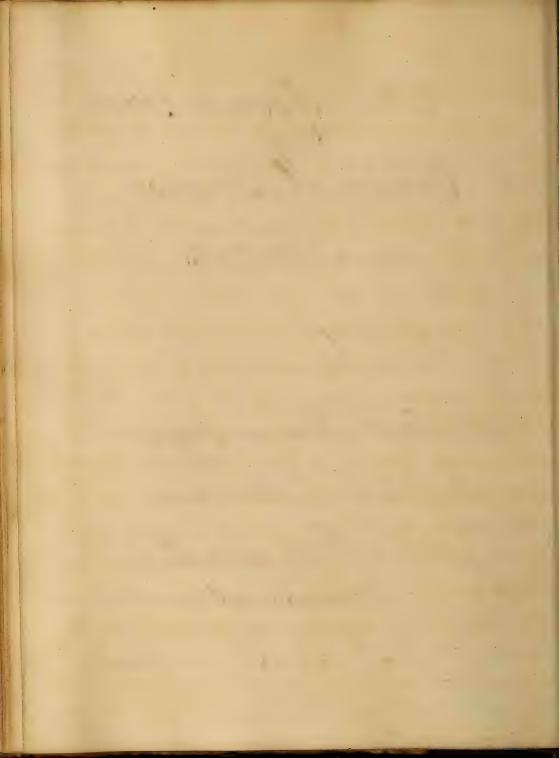
Mr Alexer Monro Senior

Professor of Anatomy

in the University of

Edinburgh

F. R. S.



Of Tumours in General 1. That part of Surgery that I design to treat upon this Seeson is that of Tumours, than which there is not a more perplexed or intricate Subject in the whole Art, either as to the difficulty of reducing it into any thing of a regular method, or accounting for the several Tha nomena that are observed, and sure no wonder when in the definition of this disease scarce two authors agree, nay, in the very Denomination or Terms in which they would express it, they differ. Hipporrates in his Aphorisms, Lib. 4. S. 34 and frequently elsewhere calls a Tremour Vidnina, and Dinua is a frequent Term with him for the same in his Book de Morb. Vulg. Lib. 6. 5 12 and Liby. 1 64. by which two words we now always understand two particular Tumours. Several Authors use A Troompa to significe the same; tho' of is what we properly call an-Abscep, or when there is matter collected. I mention these by some presenced to be Synonymous Names, that in your reading you may not be stumbled with them, when the du ther takes them in any other than the common received But I shall not trouble you with any Variety of the Definitions of Tumours, which would rather be nauscous than

Than instructing, lelling you only know what my own meaning of thes is, since it can only necessary for your pre. sont purpose: Perhaps however, several here would be satisfied to know the Authors different Sentiments, where fore I judge it not amif to cite the particular places of some of them where you find such variety as in Juliop. de Sumoribus P. 2. Cap-13. Agragiendent de Tumoribus Cap 1. Towest in Obs. Cherurg. Lib 1. Schol in Obs. 1. Sennert Med. Grael. Lib. 5. Cap 1. By that Disease then we call a Tumour, is understood a preternatural Increase of the Bulk of any part of the . Body, entirely preventing or in part hendering the perfor; imance of any of our actions, occasioned by an Obstruction of our Liquids in their Cineds, or a Stagnation of these Liquids when not confined within their proper lands -By the preternatured Increase of the bulk of any part we distinguish the Disease from any Tetting out, which in several pents serve for very considerable Uses, and gradually becomes more conspicuous as the Body grows. E. y The typo: Ephysis in Men and the Mamma in Women; entirely pres eventing, or in any part hindering our literies, so that a lear man turning fat, or a woman giving such is not

not to be looked upon as labouring under a Tumour orea? 3. sioned by an Obstruction of the Liquids on their Canals; fair. ly excludes any extraneous bodies ledged within us, as Suxations, Fractures, and Ruptures. These last are gene rally breated of among Jumours, the there is no more reas son for it than for the other two preceeding, since all of them agree in the common lause of Swelling which ap: pears, viz the removal of parts out of their natural Sita: cation into some neighbouring place. After having explained what is meant by a Tumour, we come next to examine and enquire into the nature of the (weeses, which are mentioned in our Definition, viz an -Obstruction of the Liquids in their faneils, and a Stagnatur of these Liquids when they escape out of their lunals -For the better understanding the Subject, I presume it will be necessary to mension some of the propertys of our Liquids and Solids, which these their beat of the animal Oconomy hear demonstrated I. That our Liquids consist of Spherical Globules of dif. ferent magnitudes, the degrees of which are vastly numerous, are the largest, yet the degradation paper our knowledge

4. 2dy That the larger Globules, when no other power opposes are resolved into matter. For a further proof of these two In. -positions, consult Lewenhoch, Litceinn, Bornhawe's In 2 Stitutions. Sect. 225. 3 That these Globules have mutual attractions which increase in proportion to their Surface of Contact. Tis as. : sumed by Spolet, Bellini, and Wiel, that several substances hower a fower of diminishing and increasing their attraction, which are known by the name of loagulants & Resolvents -4 That the Solid parts of our Bodies are nothing but w Congeries of Vehels, whose Series is as lettle to be deter. inines as that of the Globules -5th The larger Vehels are made up of the Smaller -6 min all of them have a power of contracting -7 The smaller the Vefsels are the more frequently they ernessomore by Injection & muropopical Observations. They are coinced in More Grighius, Lewenhock, Bysch ge Now these things being premised, we may return to the first lause of Sumours, viz Obstruction on Stopping of the Course of Liquids Thro' the Vefsels; When the Circulation in the obstructed Defsels is wholly or in part hendered. This must happen either from the Straitness of the

Vefsels, or the bulk of the Liquids or both -The Vefels will be straiten'd by any compre fine, as by Tumours of any hind, Fractures, or Luxations, too tight Bandage, Weight of external Substances, which by the Grahs is ceilled whence we find in the Manoires de l'acad. des Sciences 1707, Feb. 11 and 1712 March 12, an Inflamma. tion and Gangrene occasioned by an Aneurism; hence so often Inflammations and Wematous Swellings upon Luxations and Fractures. Women with Philo very often hewe, or rather, seldom mils to have dematous Thighs and Varicose Sumours; hence comeso man if abscepts & Gangrenes after too hight Bandage. After Tedeais Discuses few miss Gangrenes on their Hips and Shoulders ___ The Diameter of the Vefels may lehewise be diminish. ed by the fontraction of its own foats, which are either ow, ing to the Elasticity of the Fibres of those foats, or to ETEVOXO. Bra, 1. e. any Tumour increased either by the rigidity of the Fibres, or any Stimulus applied to the Vefsels, that form these Couts, or to the defect of the Liquids within the Vefel The Second Reason given for Obstraction was, the Buth on Largeness of the Liquids increased, which may arise either

6. either from the shange of the Jugure of the Globules, from a Spherical, which is mest capacious, into any other. This will happen when the Motion of the fluids is too languid, by the Laxity of the Vefsels, or the small quantity of the Liquids, which seems to the Course of Redematous Swells ings, and Dropsies, in weak emaciated people. after a large Hamorrhage the Signies become too groß for pass. ing thro the Canals; by a preternatural Union of several Globules, from Colo, too great heat, Spiritous Liquors, sharp lleis, violent firculation & whence Inflammations, Prisypelas, after too violent toercise or a Debauch; Gangrene or Sphurelus after being exposed to Colo, or the heats of Summer, and Scherious Tumours from an irregular course of Diet, and Sleurisies after drinking heestely of cold Liquers when hot with Exercise -Now the both Liquids and Solids are in aperfect good condition, yet if the large ylobules make their way into smaller l'essels than they can circulate in, an Ob. = struction will follow, which may happen from a too great Impulse gwen to them, or, a relaxation of some of the Vefols, especially, if upon these lases their opposite follow. E. G. If one after heating himself by Exercise or otherwise

otherwise, would swallow down a great quantity of 7 who Liquer, or expose himself to a cold wind; by the Cold's Sadden contraction of the Vepels , which before were very much dilated, he would hardly escape one of the inflammatory Diseases, such as Angina, Heu. ritis & a Thegmon or trisypelas externally -Now from whatsoever of these leuses an Obstrution in any Vefsel, or in severals is produced, 'his plain that the Circulation being here either in part or whele Ly stopst, the succeeding Liquids, which are constantly propelled, will endeavour to distend the Vefel in we they are contouned, and this Distension when sensible is what we call a Tumour. The Second fause of Tumours in our Definition was the Stagnation of our Liquids when not confined within their proper lanals. The lause of this is either a Laxi; ty, or Weakness, of the Vefsels, or else a Desolation in the louts of the Vefsels, may either heat its externity as appears to be the lause of all sorts of Dropsies, or the weakness may be at its sides, as in the true aneu; rism and Varia. By a Solution of Continuity in the Coats of the

8. Vefsels, several Tumours may be produced, as the Bei, Stand Uneurism Bhombus, Emphysema, of those that follow Contres cons ._ The differences of Tumours are taken from their ap. pearances, whether round or flat, eleep or superficial, large or small, hand or soft, white or red, &c which the Hand or Eye can discover. 2. From the place in which they are, whether exter. ral or internal, in the the Orterys, Veins, Glands, common Teguments, Muscles, Tendons, Membranes, Nerves, Bones, or Cavities. 3. From the time they take in forming, if they form very quickly, they are said to be by Fluxion, if slowly, Congestion I don't think it worth our trouble to insist upon the Galenical distinction from the four predominant Humours, of Blood, Bile, melancholy, and Phlegm. and the different Combinations of these, nor on the con: Esequent differences those Sectaries make of Pole, Hot, moist, and Dry, & the various degrees of these Quality, nor on the Paracelsian Chemical Drinieples of Sul, = phur, Sall, and Mercury, by all which, diseases are

presended to be accounted for, since they are now est.) ploded, being nothing but a meer Jurgon of Words. and incapable of ever leading us into the true new; ture of Diseases. The Prognosis of Tumours in general is to be taken from the nature of the Tumour, which we can only know by aparticular history of them, from the Bulk of them, from the place they are in, and from the Constitution of the Patient. As to the 1st of these Intentions, I can say little, except to copy out Boerhaave from Garagraph 125 to 124. which would take a considerable time which I think may be spared, the book being common ___ The 2? Intention is performed by forroboratives and Com. The Last, by Resolution of Evacuation Now, as there are hardly any other general Rules but what Exceptions may be much against, new, as a general method of luce is handed by a great many au. thors, where frequently more cases occur, where it ought not eather their where it ought to be followed, as you may be easily convinced of by looking into aquapend.

Lib. 1. Leys 4. Munich's Chirurg. Lib 1. Cays. 1. Fallon de Sumoribus lap. 7.8.9. and really the greates ! part of what they call general medicines seem rather adapted to the particular face of an Inflammation I shall only notice these fautions we are always to use, before we attempt the lune. - 1st. To consider well the nature of the Tumour, to re-Egare its State, whether in the beginning, in oreuse, or Steight, or decline, and likewise to observe the Satients Ago, Sex, Constitution &c -We should now proceed to the presticular Tumoun, whose history one would be affrighted to attempt by looking into the various numbers which authors rec hon up; I will only cité one Writer, Senner lus Libs. 9.1. Cap. 1. who from Inegartius musters them up to 226. Now only to remember the very names of them, and to dip so far as to be able to distinguish Them, is a tedious study, yet by far the least part of the work. What despeur then must a young Stil. Edent be in of never becoming master of an cert, one Branch of which in appearance is leke to spend a Life time? however, Gentlemen, for your encouragement

I must tell you, that a great number of Synonymous 11. terms are in that fatalogue collected and land down as different Tumours; as also that awast many diseases that have no affinily to our present lase or Subject are there reckoned, and truly without using any such art in mustering up Rolls, there is a very copious Subject left, such as at present we cannot discuss_ These we design to insist unon may be comprehend. co under a few general heads; for by the definition of a Tumour that was given, you may know we ex: -cluded all extraneous Bodies, Hernias, Luxatiens and Fruitures, neither shall we enter into a detail of Entaneous Tumours, or Tubercula, as they are commonly called, reserving them for another occusion; nor meddle with the bony Excrescences, as designing some time to treat of diseases of the bones by themselves, nor towhat these Tumours with which the lyes are troubled, since, in my opinion, the maludies in that part deserve a particular Consideration. All which being subtrailed, our present Subject will be compre. hended under these few particulars, vir. Phileymon, Erisypelas, Adema, Schirrus, Encysteel

12 Jumours, and These in the largest Vefsels, together with their several Species and Consequences -The next Question is, in what order these weeto be treated of, which indeed is not a lettle difficulty, for some are easy to be accounted for, and these parts they occupy are better known to us, while at the same time they are more complicated & worse to cure, their these others whose nature is with difficulty found . The Method I shall follow is, to begin with these of the largest Vefsels, whose Structure and action is bet. eler and most generally known; proceeding forwards to the Tumours of the Smaller Vefsels -The true Aneurism. A brue Aneurism is a soft & discoloured Tumour, in which is a sensible pulsation, it disappears when

in which is a sensible pulsation, it disappears when prefer, but returns immediatly when the prefine force is techen away; the lause of it plainly is, a weathrest in that part of the loat of the artery, so that this not able to resist the Impulse of the Rood; this depends either upon any wound of these loats, or an infirm ficalrical

Cuatrix brought upon an Wounded actory, or the Exosion 3 of the Fibres by some aired Humour, or a simple he. lessation of these Fibres, or a loo great or sudden Im. pehus given to the Bood. The appearance of the Tumour, the Thomomena it produces, its Symptoms and Method offure are all the same, but all these have abready been treated of in our Discourses upon Wounds. therefore at present to be passes over The Varix. The Veins, whose loats are not near so strong as those of the Arterys, are frequently distended by their Liquids, and form a knotty blewish Tumour without any Pulsation, by altering the Member or by compression, disappears, but returns assoon as the Compression is taken of. The knothy appearance is

owing to the Valves which make so many divisions of the stagnating flices; the blowish Colour depends upon the Blood appearing thro' the Tegumento and Coats of the Veins. This Tumour, which the Laters called varior, the Greeks, KIST's, may happen in any part of the body, especially where are futicular veins

Veins, or in any place the fouts are not assisted in performing the fireulation; for these wanting the acti on of the Muscles, to which the other Veins are sub, = jeited, are not so capable of propelling their Liquiels and therefore more capable of being distended by them, and still more so when the blevo must be raised con. trany to its own Gravity, I.e. in the most depending perts, hence the lower extremities, Scrotum & Testiles and Anus are so frequently with this disease -Now there are agreat many lauses to which this Tumour may owe its original, as first, a Weakness of the Coats of the Vains, either from a simple relaxa. Then or too great distension, or, an Evosion of the membranes. For thus 'tis plain, the blood wanting the necessary resistance will distend the Velsels_ Secondly, The thick Sizy Blood that is aget to congulate, requiring a stronger Contraction than ordinary in the Vefsels will produce the same Effect. Hence all our Observators remark, that Hypochonorias, melancholis people, whose blood is of that nature, are so subject to this disease 3 day

3 dy The same reason may be given for Varices in 15. hose of the plethoric Constitution,___ 4th Agreater Compression upon the internal Veins. will force a greater quantity of floor into the restance ous, than they are able to propell, then such a Tumour as is now treated of may arise. Such Seem to be the lause of the Varices upon too violent motion or strain; ing, and hence such turned Veins round Schvirous Ju mours are on distended Mamma. 5 the When the Frunk of any vein is compressed, so that afree Circulation is stopt, or interrupted, all the branches of it must be overcharged, since the Arterys are still forcing in blood. Now it comes to the same account whether the Compression force be Ligature, weight, or any heavy Substance, hence we see this disease ouer sconed by riding, loo tight bandage too strait Garters, & women very frequently labour under it_ From the description already given of this Tumour, the Diagnosis is evident. The Prognosis is generally agreed on la befavourable, or in other words, there is seldom any great heizard, of these Tumowes of themselves

Authors seem to lay it down as a Rule, that Varices when happening as afrisis to some other disease, we is not unusuel, for according to Hippour. appear. Lib.b. Larage. 21. Mad people are cared if Varices or Her. monhoids supervene, they order them to be let alone, else they alledge a train of Dangerous Discuses, such as Heemostoe, Dropsed Apoplexy, & will follow. See Galen de Vena Sect. et de atra Bile, or Wiseman Book. 1. Cap. 14. Which I presume may be thus account. ed for, If the Veins be opened and evacuale the matter That is offensive to Nature, you easily allow that the undue Stoppage of that wacuation may be of the worst consequence, since the next part the matter may be lodged in lits Cloura being shut , is perhaps absolutely necessary for life. Now the Varices are not opined, yet nature seems still to point out this way for dis; · birdening herself: and besieles, whatever way you take to cure these Swellings, you and to this mischief. if by Comprepion you force back into the map of blood morbid, coaquelated, or jutrid Shiff, which may soon dispatch the Patient . If you pretend to cure the Jumour

Tumour by Incision and Ligature in such a facotymic 17. Body as we supposed, you bring on numerous symptoms that may baffle all your Out to remove. New, Over, vators, as Fullop. de Ulcer. Lap. 44. Wiseman Book. 1. (hap. 14 discharge absolutely to meddle with these Ju; mours, unless they are very large, and there is reason to fear lest they should burst or inflame and become pain; ful, or have degenerated into a large maligneent theor The indeed I can see no reason why the Euro should not be attempted before all these Symptoms appear; since by neglecting them, they are always in hazard of degenerating into such as as these authors own to be neepary to evacuate. The Indications are to be taken from the different laws. es assigned for Varices; if from Compression, their force is to be removed, if from Plethora, Evacuations, such as Reeding plentifiely, Surging, &. The quantity of the Liquids is to be diminished; of from Sizyness of the blood, that is to be corrected by proper thediines, which belones to the Physician to prescribe -If the Tumour is of a long standing, and the Veins

referin their contractile force, these simple Indications will serve. But if it is do and large, the Vepels by the long, and at the same time violent distension be. come entirely inactive; therefore another laute comes to be conjouned, vir a Weakness in the loats of the Veins This is the lase that most properly is the Chirurgeon's busines, because the lave depends upon external Topical applications or manual Operations, when the other lases mentioned require a different Treat, : ment. If these Tumours are timeously taken when small ane before the Stagnating blevo has conqueleted, there is no difficulty of suppressing them by applying forroboratives & astringents, such as Flor. Baleastier Rosar. rubi. lort. Granator. Rut. Lupres. Rad. Consolie. major. Anstoloch. Jum. arab. Sang. Drawn. Myrch. masheh. Lap. Calaminar. Bol. armen. Vi: triol. alumen & which may be made into the form of a Catoplasm or Cakes with their own Decor. = frons, Claret Wine, or some such astrongent Liquer, or whites of Eggs, or Iflue, or Solution of some

Gums, or into a Plaisler with Wax, Tallow, or downge 19 The Empositions kept in the Shops proper to be expliced in this Case are, the Empl. Casar and Herniam, Ung? Co. mitifs. Le Muy's Decad. 1. Obs. 6. recommends Antaids by which I signose he means the Testaceous Sowders, made with some glutinous stuff into a lake, and gives some Instances of cures performed by thes medicine, tho' it is to be observed, he applied light Bandage, without which indeed all these means would be of lettle or no Service. Thus Great Wiseman rechons it sufficient for the greatest part of Varices, and certainly where fut: ting is not required it is the most effectual methor, for by the Compression of the Bandage upon the Jumous, a sufficient resistance is made to the Blood, to him: ader its dilating the Veins, till once the fibres of their Couts have recovered their Elasticity so as to be able to bear the Impetus of the Blood without yielding. Wiseman Book 2. Cap. XI. relates five succepful In: Estances of this method of Juro. If the Varise is not very large, and you have recessin to suspect that the Blood has wagulate in it, which you can distenguish

20 by the Tomour's not discippearing upon Compression, there would be canger of forcing the clotted blood into thetes. isels again by the former methor of Compress and Ben. : dage We must therefore first evacuale the stagnating matter by opening the Vein with a Lancet, as in the common operation of Hooding, only the Orifice is to be large, then with your finger squeeze the flood onel, and afterwards prevent the collecting of it again, and distension of the Veins as just now described -The Last lure to be treated of is, when the Tumour is of such a producious Bulk, that there is no hopes of the Vein's being capable of recovering its former lapar = city, as from observators we find they may & sometimes are distended to an incredible Size Lower de Corde Pays 2. tells us of one that couls contain two pounds of flood. Hildein. Cent. 2. Obs. 35, relates the lase of a monstrous Varia, no less than a Span long gas that, as one's Oun. Now such Varices require to be speedily remedied, because of the mischief they are in hazard of occasioning, such as violent Hamorrhages, if this should herst, which if a skilful person is not at hand,

may be of the very worst Consequences. Dolius Encloped. 21 Cher. Lib. 5. Cap. 12. relates two Cases from the German Ephimerio, one of a Woman seven months your will. Child, who lost her life by the bushing of a Varise in her left Leg. The other was of a man who would have perished by the same, had not a Surgeon come in home, to prevent it. These monstrous big Variees likewise by the Obstructions of the Vefsels in the neighbouring parts by the Congression, as also by the matter turning aind, Erisypelatous, Edematous Tumours or putred malignant Alcers may be produced, as you see in muy Decad 4 Obs. 6. Decad. 2. Obs. 2. and Hildan. Cent 2 Obs 85. Several methods of fure have been proposed by au: : thors. Pelsus. Liby. Cop. 3. used Burning and Ex. : cision; in order to cauterize they laid the barriose part of the Vein base, then with a small red hot Iron they softly profice it shunning corefully to burn the Lyis of the wound; at every four finger's common busning. In the beginning of the Excision, the Vein was carefully to be diffected with Hook and Scalpel,

22 Then flunt hooks were introduced bolow the Varia, each at four finger's bread the distance, after which ap. : paratus the Vein was raused by one of the Hooks and there cut thro by pulling the hooks nearest the divided Extremities of the Vein these extremities were torn out, then cut of. Thus the Cutting and Tearing were contis nued till all the Tumour was destroyed . Parey Lib. 13. lays. 20. proposes to apply Potential Causties all along the Varior, and so to open it, after the Eschar is once separaled, he cures it as a common eller; felsus's method of curing is so painful and cruel, that indeed 'the would require a marius to undergo it, and at the same sime unsafe, as are also both the actual and Istential fauteries, because the extremities of the Veins not being stopt, the Rafient is in danger of his life from an Hamorrhage, that may happen: Therefore they are all law aside, and then neither Con. pression by bolsters nor bandage, nor simple Evacu. ation are sufficient lo make a luce, but we are oblige Ted to destroy the swoln part of the Vein entirely. We must rather follow the aginetus's method, which is by

for the safest and least painful, and found success; ful by several allthors, particularly Helden. in that Observation of his already mentioned, and Scultel. armament. Chirurg. Tab. 43. declares he found it to be succepful. Ofter preparing the Body the common way as be. fore any operation where there is hazard of a Jever, and Inflammation, as is usually done by floodings pergings, and perhaps by medicines accomedates to the Patient's Constitution, together with a very re: equelar speire Diet of good price, as lessus call it, for some time before: after this preparation, when this lase may well enough as mit of it, we proceed to the Operation itself; inorder to which, by placing the Satient in adepending posture and by Ligature on the Trunk of the Vein, we let the Various part benstended, so that we may cut the more firmly then laying the Vansi bare, we the same way as in The aneurism, of which alreway, introduce one thread below the supersor part of the Tumous, and another in the inferior part, both which must be ties where 24 the Tumour is opened, the flood being evacuated the wound is promoted in its suppuration by Digestives the Threads are allowed to fall of of themselves, and the whole cured like a common wound. -The Satient in the mean time being exactly requir · leter in all the Monnaturals, lest by abusing any of them, Sain, Inflammation & be brought on, as Sculter. in his armament. Chirurg. Declarit. owns happen'd to himself the first time he attempted the operation, upon the Satient's using too much motion, for which less of Reputation he would never venture on't again, but made use of Topical Mediines. ___ Now, because Varices in some particular parts have got distinct names bestowed on them, and some of them require a little different treatment from what has been now delivered in general, I come next to examine these, and First, of these that happen to the Scrotum and Testicles, which by some are esteemed Hernice or Ruptures, and are mostly numbred among the Class of these less a which are Variocele and Priocele. Variocele

Variocele and fircocele. These indeed properly speaking signific the same thing, for the one is the Lahn, the other the Greek wood for this preternatural Sumour of the Veins pre. fixed to the common Denomination, Kuli which signifies a Descent, the they do not deserve that De, signation; however, Surgeons now adays in their en. counts of Hernie generally make these two kinds of Various Tumour's distinct When the Veins of the Surdum are thus distended, they call this Tumour, Variocele, and apply the name of fireocete to such a swelling of the Internal Veins of the Spermaties & these of the Testiles The Variocelo is easily distinguishable by the Lye, may have some of the same reasons for its Rise, and requires the same method of fure as Varices in any other grant of the Body, consequently come to be compre. hended under the general his long of varices, which we have just now finished Kugeokuln is not altogether soapparent, yet is easily enough discovered by the Swelling betweent the Testile and Ainigs of the abdominal Mucles; Tio distinguish 26 from a true Hernia, by this Swelling beginning be. low and gradually ascending upwards, this softer them a Sauorele, and ijeles when preper, and the dife, rence betwist it and a Fydrocele and Ineumatoule is known by the unequal knotty Surface it has, while these are perfectly smooth. This disease depends upon the same lause, as a common Carisi, and Therefore, unless it is very large, it is not dangerous. ney, Forrest. Lib. 27. Schol. in Obs. 25. mentions a Frien who carried one larger than a man's head about with him, upwards of livery years; and Montagnana tells us of unother who laboured under such afircoceles more than thirty years; they are however very difficult to cure - especially if of long standing and large -The Inouation differ not much from what has been said of Varices in general, only that instead of astringents, authors generally advise to breat This Tumour with Emollients and Resolvents, such as Decochiens of Chamon Malows, Mercurials, Scordium by way of Jomentation, or Farin. Fabar. on Som. Line -

Vinegar, Sp. Vin. C. Gum ammen ge in form of 29. a Cataplasm, or G. ammon. Galban . Ebony Empl. de Cis - cut. Requal. de Ranis cum Mercur. Drawhyl. cum Gumm. as paristers. At the same une taking love to heep the Servium well suspended by a proper brinderge. that the weight of the Tumous may not strenk the Vefsels, and create pour, and shunning all rough usuge to the parts for these incline to ulcerate, in which case there is sometimes a necessity of coming to the opera. His of Castration Swhich will afterwards fall under our Consideration ! tho' as much as lies in our pow: -er we should endeewown to prevent this discuse com: ung to such an Extremity The last Sort of Tumours, which I think belongs poro: perly to the Class of Various is,

The Hamorrhoids _

By which is understood apreternatural dilatation of the Veins that return the blood from the parts near the anus. If they burst and pour out their contained Blood, they are said to be open or true. If they are only

only distended, they are called Shut on Talse, and either of these sorts may be internal or hid, or exter. nal or apparent from the different appearances they make authors have likewise put different name, upon them, as Verrucales when resemble Warts, Wales when they are like Gropes, and morales from their resemblance to mulberrys. The lauses of them differ nothing from these quin in general for Varices; hence Melancholie or Hethoriper. : sons, such as indulge a sedentary life, such as are ge. norally cestive & women with thill are so Subject to the disease Neither is there any part of the body where the Veins are so subject to this distension as there of the anus, because there are the muscles which by their Contraction might forward the Bood's firen, lation; on the contrary, all the parts are less and in - active; the blood has almost experpendular laune to make upwards, and no Valves to support its weight One can easily distinguish with the Eye betweet the Soils of Tumours, and these other that infest the any very frequently. The some dutions particularly Doleus

Encyclopied Chirurg Lib. 3. Cap. 8 chuse to make 29 no distinction of the Hamorrhoids, Ficus, Custa, and Thymus, but comprehend them all under the general name, Endylama. Somes of these Tumoun differ very little from one another, the these of which we just now treat certainly deserve to be separately healed of . If the Stæmorrhoids serve as a Critical Evacuation in plethorie and Pacochymic Constitutions, and are not peurful nor attended with Inflammation they do considerable Service, and are not to be shopt I have known severals who have thrown out agreat quantity of blood by these Veins as regularly every month, as Women do their menstrua, and laboured under much the same Symptoms when obstructed, May, all authors agree, that by such an Evacuation if seasonable and moderate, several diseases, such as Hæmoptoe, Rewritis Molancholia, Mania, angina) Je may be prevented or wired. Therefore in sucha lase we are not to be too anawas or precipitate in suppres: using this flux; but if it is immoderate, so as to wack. Dropsies, & Cacheaus should be its Consequences: If

30. The Hamorrhoides Cace are large and very painful, unless timeously remedied, there is hazard of Inflamma him, aboccefses and Jistules as has happiened to severals I could mention, besides, there is not only the hazar to the parts affected, but the neighbouring parts also suffer, whence pequently Suppression of Unine, ordent Tenesmus, and abortion, as I lately had ours ion to see in a Lady that was affected in the eighth month of her Irognancy The Verruales are estermed the worst to cure, the mo rales the next, and the thules the easiest. The Indications of luce are lethen from the Causes in which the disease depends; If from a Slethora, by Eva. : cuations, of from a Cawchymia, the Liquids must be corrected; of from an Obstruction in, or prefoure on these vehels, that must be removed; if from a weakness of the Vefsels, they must be strengthened, other the Symptoms that supervene must be corrected. But to be more particular, we shall begin with the blind Sort. In this as well as the other we must keep the Belly open by depolving what Faces are already con-Sained in the Inteshnes, by injecting emollient Glyslers, by

giving the Satient only such tribuals as are of easy Di.31. egestion, & afford a small quantity of Freces, and prequently administring Laxahire Medicines, carefully associated any groß heavy meals, or any thing either in diet or by way of medicine that is derid; for by these the Piles may be forced down even in a sound Body and therefore in this lase must be very pernicious. If the Latient can easily bear it, we diminish the quan; they of Blood by Vene Sector, if the Piles are small and without pour we endeavour by astringents to cure them; Such as Devoctions of the Cort. Granator. Her . Res . rubr . Herb. Plantag & . The Sigil. Solomon and Sophie this. are extelled as grand specifies in this disease when taken by the mouth. But tholine tells us of a man was by lahng Gara Granalorum recenha. May, agreatma. ing authors prefere to cure, or prevent this disease by amulets of Read Fabaria recent - When the Tumour is external, some ery up the ung Topulion or ung de alth. with July Suber ust as a grand Specific to cypyly to the dilated vein, and certainly it is avery good medicine as I have often experienced in such lases. If these Hamorrhonds

are attended with pain and inflammation, plentiful Blood: letting is necessary, and till once these Symptoms are removed, Emollients and Lenients we to be used, and I have seen very good Success from the Use of the Balneum Vaporis of the Becortion of althow, Chamomile, mer. -curial. Flor Sembru with Six Vin and after this the common anodyne and emollient Cataplasm; When the Hamorrhoids are so large that there are no hopes they ever will contract themselves, to their former demensions, we are not to hazaro an abscept of Jistula by the too long stagnation of the malter within them, but ought to let it out by openining the Tumous with a Lancet or Iniquing them off with Scipors, or else destroy them by cutting them around, or by applying the cachial Cantery. This last mether the antients used as we learn from Huppoer. de ratione Victus in morbis acutis, et de Heemorrhoidibus and Celsus Lib . 7. Pags 30 . Sarayr. 3. But we must be cautious in singit, lest we create too much pain and bring on Inflammations, as Durman Chining Ceries tells us happiened to a Sahent he afterwards hack mon Men, with Digestives, Incarnatives and Epulotics

When the Acemonhois are open, unless the flux of 33 blood is immederate, and weathers the Patient too much, we must not be low horsty in stopping it, in case of a consi; derable Homorhage. The lure consists in preventing the ill accidents that sometimes follow the repressing of the Flux, by flood letting and internal medicines appropriat; to to the State of the Sakcent In this, Supportates, in the place last cités, ques excellent rational directions, Then afterwards stop the blooding by the application of astringents. Consult Wiseman Lib. 8. Caps 1. where are different Observations on all the Methods of Cure montioned. We come now to these Tumours which depend upon the Ex. travasation of the Liquids out of the larger arterys of vais.

False Aneurism.

When a large listing is wounded or by some neighbouring liken corroded, so that the Blood escapes out of it, when there is no external Orifice in the Tequements, by which the Blood may have liberty to get out, it instinuates itself a: mong all the surrounding parts, and forms one of the most dangerous Tumours, which we call a bastan aneurim. This

34 This I had accession to discourse pretty fully of be fore, and therefore shall not trouble you with any de. - kuil of it just now After the same manner if a Vein is opened such another Turnour may arise by the Ensequence, theo is what is come monly called an Ecchymosis.

Which also may begind weed by a Fall, Blow or other accedent, where several of the small Vefsels of the Ser. equiments may be broke.

The Ecchymosis is soon enough discovered by hnowing if any of the Courses capable enough to prisoner it have preceeded, and the discovering of the peuto where it is con : tained, by their changing into yellow red green or blue Colour, and very frequently the remarkable rising of the part, the sometimes the Increase of the magnitude of the part is not so observable.

This Sort of Tumour is not dangerous, unless very con-Tiderable, nor is the lune very difficult. If this small, we may endeavour as soon as we can to discufs it, by Repel. ling and Resolvents medicines, or such as constrict the

broken Vepels, and hinder the further Effusion of the 35. Liquids which at the same time they extenuerte those abready extravasaled -All of you certainly know the common method of up. plying with water and Vinegar to a confused point in medially upon the Bruse, and that of offining a Compress into Water, after a Thrombus, 1. e. after too small an Orifice in blood letting; and to these may be must some of the common astringents, which we have pequently mentioned, by which a flux of Liquids is prevented, then endeavour to resolve by formentations, made of the Devoction of Flor Chamom. Melilot Sambu, Herb. alth. Absynth. in vin and water, or Frickens with Sut vin. Camph. and Vinegar. afterwards up. ply lataplasms of the nowvers of these Herbs, of Crumbs of breed, Claret, or Lees of Wine; Some cry up Bran and stale Usine; The design of all these ly, explications is to attenuate the extrewasaled Liquids and strengthen the Vefsels, so that the Liquids may ei; ther be sent out by the poses of the skin, or resumed into the enast of blowd by the open mouths of the Vims -

36 If the Eurhymosis has been considerable, plentiful Hooding is one of the most effectual Remedies of the Patient can bear it. When the Collection of Blood is so great that there is no hopes of wing the Echymosis, by this method, then we are obliged to lay the Tumous open, and evacuate the blood by the Experture, lest by its Corruption a deep albrefs should be formed, or by its Congrepion a Gangrene be brought on. In this lase his to be treated the same way as a bastard Unawism, from which it differs only in degree, not being of near so ill (onsequence) -

Phlegmon

After these Tumours which happen in such Vefeels as we can observe, which are these immediately treated of we cannot soplainly print out each particular one, yet we are able to disting quish their particular sorts and Classes of Vefeels their suffer. The first sort of these, (awarding to the method we proposed to follow when on Jumours in general) will be

be the Phleymon, or Inflammation which entirely 38. signifies any burning heat. When applied to Tumours, it either in a large Sense denotes any Tumour from the distension of the small Vefsels by the red Globules of blood, attended with a rapid motion of the Liquids, or, Lastly, the denomination of a Inlegmon is applied to a particular Species of inflammatory Tumours -There is a Distinction here pretty frequent among Sur, egeons, the not taken notice of by authors, vir Inflam, mation they take in alarge Sense, Thleamon they lake in a more limited . Which distinction I shall follow, the I cannot say I am sufficiently war rantes to do so, yet it will be very necessary to avoid confounding of Ferms. According to a strict method I should now proceed to the history of Inflammation, but as this is much out of the row of thirusqual I realises, and that the Bro: gnosis and Induations of a Phlegmon are the same with it, I shall wave it and go on with the Theamon, whose description is, a red hard and painful Sumour allenved with Fever and Thirst, occasioned by an Astruction

of the small Vehels, in which the red globules of Rood circulate, or may be confained That a Tumour may be thus produced is plain enough, since the Liquids are constantly driven on towards the obstructed parts, and cannot there find a papage they will distend the cefels, which distension we call a Tumour. No wonder that it is red, seing the Liquer contained in these lefsels is entirely so; by the violent disten. sion of the Vefels and compaction of the Liquid and Solids it must feel hard and not yeld to the South. The Fibres of the Solids are strekhed far beyond their natural Tone and near to healing, hence on aute pungent pain must necessarily be felt -From the attrition of our solies and Liquids the heat our Bodies depends; but in this case the Liquids are violently thrust against the Solids, while the films by their natural contractile force, end eavour to reesist any distension beyond their natural Tone, hence a violent attribus, consequently the heat in that part must be much increased by the resistance of the Extremitys

Extremitys of the obstructed Artorys, the Dilatation 39. of their Sides at every Systole of the Heart will be greater and more conspicuous, hence a sensible pul: sation of the Tumour. Upon the Obstruction or stopping of any number of our Vehels, the Velocity of our Liquids must be in. creased thro' the rest, as Bellini and Spolletti have demonstrated. Now besides this in the present Case the poin serves as a Stimulus to make the solids contract more vielently, and therefore to increase the rapid motion of the Liquids. From which two lases the Rise of the Tover and its consequences are evident. - The lase on which these Thane, : mena ocheno, you see, is en Obstruction, which has abready been ausunted for, whon upon Tumours The Irognosis here is to be taken 1st from the Tumour itself, whether large or small, deep or su. respicial, attended with the Symptoms in a violent or moderate degree, and the Time and Stale of the Tumour when you are called.

2 by from the place where the malady is whether in the internal or external parts, or near those that are necessary for Life, or those that are only Subservient to the Conveniencies of Life, or in apart that is extremely sensible, & whose parts if distended are not easily sugated as when near to large Tendons, nerves, or blood topsels, or when in such places as may supply a flux of Humours, as the Glands or articulations, or in others that are not of such a nature. 3th From the Constitution, lege, Sea ge of the Salient. Att From the lause of the Obstruction, whether morely Topical, 1-e. only in the place affected, or if it is more general ge. The different manners by which an Inflamma, Atten may tereninate are, 12 By Resolution, when the obstructed matter is

not so firmly impacted but that it may be made still fit for Exculation, and by one treatment are actually forced from theso Vefiels in which they starpated

stagnated, without any Lesion of the Vefels. This 41. we know is the case when all the Symptoms gradual. by abale Egently goof, 2 When the Spepartion of the Liquids is so strong that they cannot be thus forced, but by the accu, mulation of the stagnating Liquids and vast dis, tension of the Vefsels, these gradually give way, and are broke, and with the contained fluids form white thick Liquor called Sus, then they are said to suppurale, which we know by the constant Increase of all the Symptoms, especially the pain, tol at last the Tumour subsides, the pain abates, and the Swel. : lings seems soft and fluctuating 334 If the Obstruction is very great and the Symps, toms extremely violent, the fireulation comes to to entirely stops, in the inflamed part, the Oxfols are destroyed, and the Liquids very soon corrupt, con: sequently so far it is a dead maps, the pain & heat Suddenly cease, the Colour of the Tumour changes to wards black from the great quantity of congictated blood, the then parts of the corrupted mass separate

from the großer, and endeavouring to make their way activated cannot force thro' the spidermis, but raises it up in form of Water Blisters, then the inflammation is said to be exangrend, which mortification if it per inctrates into the Bone, degenerates into a Sphare celus.

1 the Sometimes when an inflammation happens in

a grandular part where the Obstruction is in the fol, lieles of the Glands, and it is attempted to be wired by Diminishing the Impeters of the Liques and strong Contraction of the Velsels, without endeavouring the resolution of the stagnated matter, the thinner ponts are expressed while the großer lurn still more com parted and do not distend the vefels somuch, so that now the succeeding Liquids are not propelled with such force as to create pain, therefore a hard indo. Lent Tumour will remain, which we call a Schirres Now from these a rational Surgeon may casely

enough be able to judge what the wents will be in the several lases; for example, he must see that a well blooded young man lubouring under a small superficial

Superficial Phlegmon, in the common Teguments, for 43. from any of these dangerous places mentioned, and called to him at the first oppearance of the Tumour will be sooner, more easily, and with less danger cared then of it was a large inflammation, near these pents that are necessary for life, which was abreedy beginning to suppurate and gangrence & the Sakent an de Calochymie delayer person -It is ageneral Rule that we endewour to cure Theogenous by Resolution, which is by far the most conjunctions inethoo, yby much the safest, except in these following lases -If this Tumour appears to be a critical discharge, 1.e. when the Satient was labouring under some worse Ma, Lady, and Mature lakes these ways of throwing cut the matter that oursioned the disease; Witness, the Sarohos in pestilential fevers and Buboes in the Lues Venera, or Subacillary Tumours in helbren, when, as the com, mon saying is, they are full of Humours. In these and the leke cases by attempting the resolution of such Tumous, more harm than Service may be done, whereas

11. by allowing them to suppurale, other considerable maladies may be cares. This all authors who treat of the Raque confrem, who all agree that the influmenatory Tumouro what frequently then happen, should be brought as soon as pepelle te suppurate, in order to save the Sahint. I have soen all the Socher matter evacuated by a Bubos and other times by endeavouring to discuss one of these Venereal Tumours, The Testiles have swelled, the Satient has been racked with violent pains all over his Body. - A Girl nine years de here in Town, was much troubled with some eyes for a considera : He time, her head lurned Scarbed, all the little flands about her nech swelled, and felt very hard, at length on the back part of her Humerus a Thlegmon appeared, supporated, and was kept open for some time, by which Evacuation all the former symptoms were rea smoved. The mother of the Cheld at length turns in: patient, will have it inatrized at ciny rate: against my Inclination I was obliged to humour her, het in alettle time was obliged to renew the Evaluation by Sontabel

Fortanel, because of the return of the former Symptoms. 2 dy If there are already any Signs of a Suppuration begun in the Tumour, the Resolution is not to be atlempted for either it is labour in vain, or else you herzard the Resorption of the formed Pus into the Muss of blood; Consequently it is lodged in some part that is necessary for life: _ Now, that we know the exceptions against the first inthos of curing Shlegmens, we may proceed to the methods of line, whah are, To remove the lauso, by which the further peogrefs of the Tumour will be prevented, and to take away the Obstrue. him abready formed . If the lause is external, such as Bandages, Swaths, the prefure of heavy bodies, sharp substances causing pain, and applications and too much heat or Colo se! Tis soon discovered and as soon removed . If this internal but Topical as the Extremities of luxated bones, the reduction of these bones answers that Intention; when the laure is from the mass of our Liquids, it must either be from

the too great quantity, which by Evacuation is diminished, or from the too great velocity from some stimulus or violent Contraction of the Solids, as by too violent motions, furious Dafrions, drinking of fuitous Liquors, and Medicines given internally, or from a mala Crasis of these Liquids themselves, which is more the Physician's business to correct than the

In order to answer the second Intention of luce, ein To take away the Obstruction aheady formed, you would remember that the principal reason why it continues is the Impetus of the succeeding Liquids on the obstructed part, while the distanced Vefiels cannot recover themselves; for if the Impetus was taken away the actory's could when drive the stagnating blood fach again into their proper Channels, or else the lettle Globules would be resolved still into smaller, and consequently might pass forward into the corres; zponding Veins. The most effectual way for dimir = nishing the Impetus is By Evacuation's &astrus management of the nonnatural; the Evacuations are

Good Celling and gentle Surgatives , which, as also 17 the honnaturals, we had occasion to be pretty large upon in our Treatise of Wounds, and therefore shall not now repeat the Directions given . The internal Medines night to be Diluents and attenuants, but am afraid that to insist on these would be thought on. noaching on a province that does not so properly be. 2 long to us. The external topical Applications must be regulated according to the State in which we find The Tumour; if it is but beginning to appear and not well formed, Repellents should be used, which are all of the astringent Class, and therefore needless to be now prepeated; but we should not too hashly apply the strongest of these, for the moderate by construct: ing the Depels, may kinder their too great Distension, or flux of Humours thether, and help to drive out the obstructed matter which is not yet very much im. spaced, yet of the arterys are so suddenly &violently constructed, the obstruction may thereby be more confirm. ed. 'Tis true, that in some lases where there is reason to suspect an inflammation may happen in some welsein

48. place for Example, upon a blow or Strain before the part begin to swell or turn red, somerf the stronger Repellents may be used. If the Tumour is some way advanced whas been for any time continued, we must have recourse to resolvent applications, for the matter is now so firmly compact ed, that the Construction of the Velsels alone are not suf; ficient to drive it out, but would rather fix it sures. Now, the nature of these Resolvents or, as some call them, Discutients, is, to dilule, by mixing their thin. ner parts with our Liquids, while at the same time they break the attraction of the lettle Globules, and make them felter either for perping thro' here vehels, in which they could not inculate before, or for escaping thro' the Socies of the Shin'. These Discution t medicines many either be made use of in form of Cataplas ms, Tome Atations, or Plaisters. The Materials they consist of are, absynth. Menth. Me. Salot. Rut. Scord. Chamom. Suleg. Hegson. marrub.

alb. Rad. Alth. Brion. Ires. Gum. Ammon. Boell. Galban. Nitr. Sulph. Calse. Out of these and such like

like infinite variety of Formulas that might be 49 prescribed, I shall mention an example or two . -R, Tol. Male alth. a M.I. Summit. absynth. Flor. Phamom. Melilot. Sambue. a M fs. Decoy in ag Jontan Led VI ad Lib IV Colatur add aceti optim. Zij Sal. Mitr. 3 p. Usatur pro fotu. -R Rad Allh. Brion recent. a 3 fs. decog in ferer. tonui ad mollitiem. In mortario ad pulp. ace. Eganteur et 300. Farin. hord. Sem. Fænugr. 2316 Jule . Flor . Chamem . Sambue . a Zi Gum Galban . -ammon fin vitell ovi solut I a Zij Am um q.s. Josus precedentis J. fataplasma. -Some ory up thina vehista as an admirable medicine, when applied with Jurgur Tritici, which I have seen June Isful, but the ungrateful Smell is nauseous to the Fatient. most authors prescribe Bils, unchurus medienes and Staisters, and this practice is still in the French Hospitals, but such Medicines do not answer the Intention of Resolution so well, as being less capable of mexing with our siguids; and then this (for they do mischief) obstructing the pones of the Shin,

30 preventing the insensette Transpiration which should rather be promoted. Hence people that are brought into these hospitals labouring under an Inflammation are selom weed by Resolution, but are obliged to undergo the ledicies lure of Suppuration, as I have in a vast many instances seen -I might, after the Example of our learned fountry: man Dr. Cheyne in his new Theory of Yevers, launch out into a large feeto to demonstrate the mischiefs that very strong Resolvents might create; particularly how destructive that almost universal Deobstruent and Resolvent, mercury, would be in this Case; but Ithink this a sufferent warning against the Use of it, that all the authors are silent about the use of it. We come now to an Inflammation at its height, 1. e. when the Tumour seems to be at a stand, and the Symptoms increase no more, at which time the Vefsels are generally extended extremely; the Ob. structed matter is much impacted, the Tumour is hardest, and the pour is greatest. In this fase again the Indications of luce aller; for at this home Resolvents

that have a certain Stimulus, or Repellents that 51. contract the Vefsels strongly, would but increase the Symptoms, render the contained fluids more airid, and then the lender Vefsels break, or al most would only apist the Evacuation of the thinner parts of the Liquids, consequently render the Tumour harder and much worse to wee, therefore Linients and Emollients are what ought now to be applied. For these, by releasing the Fibres, and removing the Rigidity que the großer flu: rios an Apportunity to resolve themselves into thenner, by furnishing some of their own thin parts to delute the Liquids, hence necessarily an abatement of the Sain must follow; which pain is one great oreasion of the general increased Velocity of our Liquids. These of this thep most ordinarily used are alth male. meour. flor Sambue. Farin. hord. aven. Secale, Sem Line Fenugr. Mic pour all with Lac Vital. Ovor. ag. Jontan-The Formulas of these are so common that his ide to mention them- Sure all of you are well enough acquainted with the vulgar applications of milk and Bread, Salkes pottage with the yolk of an_

54 Lyg, Farma, Sem Lini. Le. _ When once the Tumour hours to yiel and the Symptoms to abate, then her solvents become again useful; When it is near going of Repellents suiceed -I have mentioned these several sorts of medicines as separately applied, yet your Reason will soon discover, that a mixture of them will often be necessary, and by considering the condition, Repellents with Resolvents with Lenients be and e contra, are to be mixed -After the Tumour is thus removed, it will not be amy to use means to prevent its return to the arm a some other part. If the fault lies in the weather of their part more than any other, forroboratives, which are mostly astringent, should be kept on it for some time. If too great aquantity of blood occasions the Inflam. mation, that is to be prevented by Evacuations Esparo Diet ge. according to the different facuses of the disease of which we have already discoursed -If the Shleymon appears to be a critical Evacuation or abready shows itself to supporate, you may remember we warned you against attempting this method of

Resolution, but rather to forward the suppuration, which is nothing but agentle and gradual beating of The obstructed fanals, the effection of some of their Li; equies, and the Conschon of these two mixt logether by the heat of the body into that theek white Liquor, Pus, sogenerally known. The manner of doing this must be, to heep the Velocity of the Liquids modorately in: creased, particularly in the Tumour, to add a Strmu: Lus to the Vefsels, while at the same time we prevent any of the thinner fluces escaperity by the pores of the Skin: for thus the l'essels will at length be so much distend: ed that they burst, and an qual mixture of the broken Vepels and extravasated flicos made, therefore unles the (reulation is extremely rapid, so as to endanger the life of the Fatient, or a Gangrene in the Tumour, we are not by evacuation to diminish the Colority of the The Topical Applications are well enough known by the name of Suppuratives, such as had. Alth. Lilior all. Cepar asar . Fuus . Farin . Sem Lini. Fanugrae made into a Cataplasm with any oils or

oily Substances, such as of flamomis. olivar. veter. ung. Basilie Dialhaa Empl. Diachyl cum Gum. or D. Muilagin are good enough Suppuratives of themselves. May, frequently when the Sumour is superficient and inclined to suppurate of itself, or of it is very hard, the common Lenients with these are best Suppurate tives.

How while the Suppuration is going on, the Takent feels an acute pungent pain in the part, which is plainly owing to the oast overstretching of the refsels before they are gradually broke. _ Tis a general Rule, that we should endeavour by the Use of these medicines to suppurate all the ine. = soluble points of the Thleymon, before we give the Exit to the Sus, if otherwise we have agreat part un, suppurated, the fure is much prolonged, and rendred more difficult, because nature's Balancois evacuates and the Hir gets admission so that it is with great dif. ficulty digested. However, there are some laceptions to This Rule; if the Tumour appears a frisis of some dangerous disease, where hature seems to have taken

this method of discharging herself of the morbific 55. matter, and the Suppuration is likely to go on but slowly, white the Satient for want of this discharge is in imminent danger as in Raque and Sochy Tu; mours, we are not to wait till the absceps is ripe, but must lay open before and force the loweration as soon as popule. The signs by which we know the abscept is ripe or fully suppurated are, the softness of the part, to the Touch, as need barely follows from the hunge of the Tolie vepels into a fluid, the fluctuation of the matter under the Finger, the whiteness Expointed head of the Tumour, from the weakness of the Jegu. ments and white Sus appearing thro' them. But this is only the Supposition that the Thlegmen is near the Surface of our Booies, otherwise of it has ban internally or very deep, these Signs are in vain experted; When the obstracted tessels are one broke the Sain must cease or abate, and instead of it a Weight is found in the part from the prefuse of the Sus at the same time the Cinculation is again

56 fee and uninterrupted in the neighbouring sound Ves. sels. Now, both pain and obstruction being removed, their Consequence, our the Increased Velocity of our Liquid. 1.e the Fever must cease, and its concomitant, Heat, must abate, in short all the Symptoms of Inflammation are diminished, or entirely go of A soon as thus we discover the Suppuration to be pers feeled we are to make way for the wave from of the Lus, for if we pretend to wait till the Sus force its way onward thro' the Teguments, as the most part of old women are thear for doing, and some imitale them, we run agreet many hazards, and very sure Inconveniencies follow, for even upon the most for = vourable Event that it soon break outward, yet the Orifice is so small, that the matter cannot discharge itself, and we are very often under the necessity of : terward of enlarging the aperture to make aspecty fure. But then if the matter lies any thing deep, before it reaches the common Tequements the heatof the body will turn it aired, it instinuates itself in to the neighbouring pants, destroys all about, produce

Sinous Ulcers, Fistula, Carious bones, runs into 57. some of the three large lavities, is perhaps absorbed, into the mass of blod, brings on hechi fevers, Mhhs. : sis Sulmonalis, Weer of the Lungs &c. Filden Cent 1. Obs. 39 has the history of a first, who by this very delay of not opening an absceps when fully ripe, but waiting till it broke of itself, was thrown into a violent fever and died in a few days. And infent. 2. Obs. 34. youll see the fase of a woman, who was hilled by her friends not allowing Hildanus to open an absceps, betwist the Seritonaum and mufeles of the absomen, the matter howing soon after made its way into the favily. And in the observation in; mediatly following you may read of one in the same Everenstances, who by allowing the Eyestive to be mude, was weed. Bonet. Anatom. Fract. Lib 4. Sect. 2. Obs. 10. 57. tells us of the Bishop of Co. · logne, who fell into a quartan lique after a con: : hinued fever, a Collection of matter appeared near the left Scapula, he would use no Thysician's nor Surgeon's advice, at length a Tumour appeared on the

58 left side of the Serineum, out of which a veist quantity of putrid stinking matter was evacuated, that wasted him day by day. After his death a huge Collection of that hind of Stuff was found a: mong the abdominal Muscles. Hilden Obs. 25. 54 relates the lase of a young woman, who, by the in; different management of a Faronychia by some Se. =cret: monger woman Doctrix, was obliged to have the Tinger cut off, all the soft parts being gan. rgrened, and the bones carious. The method's proposed for opening Imposthumes are, by cutting Instruments or Cousties; the first of these is preferable, doing the business more quickly yourely. In the Incision we are always to have aregard to the Course of the Jibres of the Muscles below in cut, : ting parallel to them, especially if the abscept is deeper than the common Jeguments and then we are to sheen Tondons, nerves, or large flood vefiels. as to the Sumour itself, the expertuse is made in the most prominent, then, and depending part, for his you'll somest come at the maller, with greatest ease, ut

it open, and the Matter most freely discharges. When we are about to make an Incision, with one hand we grefs the Sides of the Tumour, so as to make that part where we resign to cut as pro: minent and firm as possible, in order to be in less how are of hurting any pasts below, and to give the greater advantage to our Instruments in cut; ting; Then with a Lancel or some such culting Instrument which may of of bigness in proportion to the Largeness of the Tumour, we make one sin: ple longitudinal Incision thro the Toquements by thrusting the Lancel into the Courty of the absorp, then running it along as far as we resign the aperture should be in length, or else cet once we piece from the one suite to the other, then raising the Lancet, cut all that is above it, and gently express the Sus: This Orifice will serve well enough for introducing of medicines and evacuating the matter afterwards, if 'his small, but if the alsceft belarge, and there be a considerable fewity after the former Incision has been made, we must cut the

60 whole length of the Tumour. The French Sur, regeons, particularly in the Stospitals, with apair of Sussers snip of all the leose lips, which cover the lavdy by which the Matter more freely dis. zohenges iself, and you can see better into the abt. ceps, and its extent, so as to be sure that there is no Collection of matter, and Medicines may be introduced. This practice I have seen followed with Succeps, nay, this way it seleon misses soon, zer to cure than when the Lyis are left on -If the absceps is very prominent, and at the same time very large, we may use the Second Mether of Inciscen, which is, after the Tumour by pressure is ruised as by as we can, to cutoff at once with a pair of Suffair, Lancet or Bistory the whole external part of the Tumour -If the Satient a Relations out of a sensless fear of Cherunqual Instruments refuse to let the abscept be thus land open, we must then do it by Coustie. The manner of which application is thus, Spread a piece of studing plaister (no matter which) on a prece of Lunen or Leather, cut a hole in the midst

of this, as long as you design the Experture of the !! abscep should be, which is in proportion to its large, enep, then apply this cut plaister to the Tumour. Let the whole answer to the most prominent peut, and the thunnest and most depending : Let the plais ster be dapt as close as it can be to the krum. ference, after welting with your Spottle oradrop of Water the middle uncovered part of the Tumour, upon which lay a piece of common laustie or the Lap. Sephi. Tharmac: Poin: which is to be in bulk as the Orifue is large and the Teguments thuk, cover all over with a spread plaister; this heeps the Cousti from falling of, the welting of the Shin sooner diffelves the Shone and the under studing plaister hinders it from spreading fur! ther than you would have it . allow it thus to ze. moun till you judge a sufficient Ischen is made which is according to the quantity and quality of the Caustie, which is commonly from half an hour to two hours; after this remove the Coustie and other drefsings, and apply a plaister covered with

62 with Basiluon, a some such unchuous Stuff on The Eschar, to promote its separation by suppural. ing its edges, and a Haister over it to keep it on, cenew the dreping every day till the Eschar fall off, or become so love, that it be easily brought away with the Forceps. If this appears to be too tedoris, with a Bistory or Lancet sourify its edges which makes it separate sooner. When the ischar falls away, if the abscep be opened, it is much the same when done by Inision; but very pe: Equently it huppens when the Teguments are of a considerable thukness, that even after the applicar from of the Coustie we are offiged to have recourse to Incision, because the Eschenis not so deep as to reach the Cavity of the libriefs -Now which soever of these ways the Sumour is opened, we immediatly endeavour to evaluate us much of the dus as we can by placing the mem. ber in a convenient Schuelion and by gently pres zing the Ereumference of the Tumour, we should not however be over anxious in pering the Illier of it,

and thereby put the Satient to a great deal of 63. pour, by squeezing it very hard, or ruking into it with mounted Irobe or false Tent, for thus we may bring on a new Inflammation, we certainly destroy what nourishes the small tender vefels, and carry of the best defence they could have against the Ingu. ries of the air, and best Balm for a speedy luce. Authors generally direct us when the abscels is very large with a vast quantity of matter in it, not to allow all the his to be evaluated at once for fear the Falcent should fall into a Syneope or Delique; um Unimi, and certainly this may very well hop, you if the abovefs is near any large Vefels, so as to compress them, and hinder a free Circulation, in them, for now the Compression being said enly & entirely taken off, amuch greater quantity of blood will rush into these Vefsels, than for Some time before had circulated in them, consequently asmaller quantity of blood is sent to the other parts of the fory among the rest the Brain is not sufficiently supplied. Therefore less of the Siguidum Mercosum is

64 sent out by the nerves, consequently faintings must follow. Wherefore outhors, I say, generally order the matter to be let out in small quantities, and at different times; the if it is in apart that will allow of tight Bandage I see no necessity for Thes laution for by Compression during the Lua; Ecuation, and the band age ofter, the succeeding mis; chief may be prevented, while at the same home we seen no risque of Sinuses, carious bones, Phthis ses or fevers &c. by the too long Stay of the Matter. When the Rus is all let out, the fure is the same as of a Wound by Syparcosis, and I'm persuaded if you recollect what was Law upon that Subject, you'll pind that whole Classes of Ulcers which are a Solution of Continuity by some internal corroding cause, may very nearly be reduced thether: and to convince you efit, I shall run thro' the most common distinguished ellers, and at the same time mention the Leveral analogous lauses we formerly mentioned. A simple plain, equal Ulcer, by which is meant

meant a Solution of Continuity by Erosien, with, 67. out any concomitant Symptoms or diseases, and without loss of substance, deffers nothing from such an Wound, when once it has begun to suppurate A simple hollow Ulcer is the same with a simple hollow wound without lofs of Substance. The same Rules serve for wring forded, putred, sanious Ul. cers, or these with proud luxuriant flesh that have been land down for wounds in such a find ition. If the Uler is attended with Pacochymia or In: temperies, his more the Physician's than Surgeen's busines to correct that ill habit of body, as was expresly remarked in the history of wounds. Ulcera Phagidenica a Depascentia or Moma, all which signific corresive malignant illurs, Where the matter destroys the neighbouring pails, are only Consequences of the Intemperies. If these have been of long continuance, some are pleased to cell them cinnue, others again stile them (Kronia, or requiring thiron or the Frenceps Chirurgue to cure them : others name them Telephia from Telephus

66. who endeavouring to stop the Grecianipalsage into Iroy was wounded by Achilles, his wound degenerates into such an Ulier which continued a considerable time, but at last was cured with the rust of the same spear that wounded him. Directions have been given for healing wounds with small on fuls and large lewities, une these that are in a dependency peut with their Orifics upperment, and the fundus inferior, which may serve for the Sinous Ulcers. The manner of weatrizing a Wound and the histo: my of Epulotic Medicines then gover are sufficient for understanding the Ulcera Desepulotica, which entrely depend upon Fluscien from Intemperies -If you suppose an Ulcer attended with pain the nature and lauses of that Symptom with the dife

rent methods of removing it were pretty narrowly considered.

Now the lucof an Alier with a carrois bone de.

pends upon curing the Caries, which belongs whe diseases of the Bones.

When an Aler or wound, in the Summer time especially

especially, is exposed to the Air, Flies and other In. sects deposite their leggs in them, which lags soon grow to Magyots on lettle Worms, whence the name of Vulnus or uleus Verminosum. The Removal of those extrane. 2001 Bodies, and preventing any more getting in, reduces the Ulcers to some of the former species. If Varices accompany Ulcers there they are called Variosa too only the history of these swellings in the Veins to the common Directions in Ulcers, and the disease is There is aspecies of Wounds degenerating into Uliers, which we were not so particular about, and that is, when the Sides turn Callous. Now, because the hollow Sinous sort comprehends the plain sort, and we are very often obliged to reduce the first sort to the last Class, I shall only examine the sinous kind which are known by the name of Fishele. Fistula. By a Fistula here we mean a Sinous fallous Ulcer,

By a Fistula here we mean a Sinous Callous illeer, and which I judge to be thus formed. Upon a Wound or abscep, that matter which should be evacuated is pent up, either

68 either for want of an brifice, or a propor one to dis charge itself at, or by the sides of the Orifice uniting again; or by some soles Substance crammed into the Orifice, consequently this matter must turn acred, and insinuate itself between the neighbouring parts, or by its deremony destroys them, that is, the wound or Abscep becomes Sinous, or perhaps by an wounding Instrument the Hound is already formed . after this the Callosity may be induced by some one or other of these fauses; the aired matter within the Sinus conti i mually stimulating the vefiels, yet not able to de. stroy them, makes these Vefsels construct themselves and diminish their Diameter, till by the continuance of the same lause, the sides collapse, the Impulse of the xirculating fluids not being able to force them open, and soon after they must coales co or grow together, they therefore remain no longer Vefiels, but known that sole substance which we call a fallus. The same effect will follow upon a Compression of any hard Suly Estance, introduced ento the Sinus, such as Tents, Doils Le Spiritous medicines construit our sous grougulet

our Liquids, hence by continuing some hime the use by of such, a Callus must be formed. Astringents emd aborbents have pretty near the same effect, therefore may attended with the same lonsequences. If the der have Quels into the Sinus, since by its colones and gravity it acts much after the same fashion, it will easily produce the like effect. The difference of Fistule is taken from the largeness number, figure, & Situation; for some one superficial, others deep, some long, short others; Some have only one Orifice and one faity, others have several ori: files and fewities, some affect only the external Te. guments, others genetrate into the Muscles, nerves, Veens, arterys, Bones of the Some of the Courties or Viscera there. The way how we come to discover when an Ulceris Fishelous ed, by the leye, Hand, or Frobe. If the Ori; fire is large, we may observe the laurty within it, but this very seldom happens, for generally the bri: fue is very small, therefore by feeling with our fin. gers a hard nep where the fistula lies, we discover

To its progress, the surest way is to introduce the Probe, which goes in without any pain to the Patiens and we find a greater than ordinary resistance when we strike against its sides. If there is only one sin ple Fistula and that straight, the common Silver or Steel Inote discovers its whole Extent; ket of there are any turnings, we must use some flearle Irobe, such as a small piece of Whale bone, or Silver make very flexible or a Wax fandle. We know there is more than one by the same means: Or else when we cannot get the Irobe introduced, by observing the quen tity of matter that comes out, especially after shutting up the external Orifice for some time, or else by the matter coming away (after it seemed to be all evalue caled upon the Satient changing his Situation, we have reason to conclude there is more than one sinus. When we observe two Orifices, the tryal we make for knowing if they belong to one or several Fistules is, to throw in by help of a Syringe into one brifice, if it returns by all the rest, their Communication shows They all belong to one fishela, et e contra.

Now, the same hules that served for dishing the wounds in general, will lekewise serve for discovering the different parts that a Fistula affects or runs near to. Inice these hules have all been given already, I shall not trouble you with a repetation.

The Prognosis is to be drawn the same way as in wounds, or from the nature of the Fishela itself, the fonstitution of the Patient, and the pasts it affects. The only difference between them is, that Wounds bring more immediate Danger, but are sooner were, where, as Fishela much more slowly destroy the Satient, and when weakle take much longer time, and prove a troublesome tedious work. The fure must certain, by consist in removing the fallus; without thes no reunion can ever be made, and then we dreft it like a common West.

Now, the Callus may be removed either with or with, out cutting it open; The Cases in which we endeavour the Cure of the Fistula without cutting it open are I'm When the Orifice is so large that we can have easy accept to it in applying midicines.

2 day

72. 2 y When there is evident danger of laying it open by cutting parts whose lesion would either endanger the Satients life, or bring on a greater Inconveniency than the Fistula itself was, Ily When the Fatient has not Courage enough to allow of lutting -The method we take for curing of Fishela without Culting is, by introducing Escarotick correseve medicines capable of destroying the Callus; yet we are to be cautious of using those that are too violent, lest by the pain they create, and the destruction they make, we raise more mischief their we can repair. Lists of such medicines in their several flusses have al, ready been given, such as, Iracip raber allum. Ust. Vitr. Roman. Vitr. all. arugo. Lap. Caust &c which may be introduced in solid or lequid forms, et proper Vehicles. If the external Orifice is too small it must be enlarged by cutting, or dilater with Spunge Tent. Afornas the Callus begins to inele, strong Degestives must be mixt with the Escaroties . After the Callus is once well separated, the lure is the same

as of a common Where we can some at the 13. whole Fishela to lay it open, the leaviest Especiest way of curing. Several ways of performing this are proposed; in all of them the orifice is supposed naturally, or by the method in the former face, large enough Some Operator propose to introduce as mall Silk thread or Horse hair by one extremity of the Fishela, and by means of an ey'd Probe to bring it out at the other, of there is apapage abready for it, or else with a large needle to force it thro', If there is no aperture: then by tying the two ends of the String pretty light with a noosenunning hast, and every day drawing it straiter, they gradually out thro' the Teguments, and lay the Fistula open; but this method is ledious and extremely painful, there: fore now adays it is generally law aside. The easiest and most generally practised method is, at once to cut all open with a sharp Chirurgical In; Strument. The Instruments used are first Probe: pointed Scipars, either straight or crooked, one flade is introduced into the bottom of the Fisheld, and then

74 then all between the two blades snight thro; or it may be done by introducing a Bistory upon a furraise Bistory, and then lefting up the Biston, or of the Bistory be Brobe: pointed, it may be introduced with a Sheath upon it; when the Sheath is removed, cut all thro'. The Bistory may serve both these last Methods; or, we may thrust in a Grobe or Directory and raising them strongly upwards, upon them cut from without into the Fistula; or, if there are two opposite orefices, and the Sinus is prettylarge, a flexible wire or Probe may be put thro the fisher; La, then with the extremities of the Probe raising all the Tequments as high as we can, with a pair of Supars or Bistory we cut away all the parts thus raised up. After the Jistoiler is thus quite opened by any of these methods, which we can get with most con. venting done, in order to make the lallus fall sooner off, we searifie all around till the Bood ap, pear, then drefs it up with Escarotais & Degestures y cure it as in the former Supposition S

If there are several Callous Sinuses, we lay them 75, all thus open, and if there happen to be only some small carnous Columns between them, we snip them of with apair of Scipars, then they come to be reduc: ed to the former Class, These are said to be true lures of Fisticlee, and there is another which is only said to be Salleitwe while the flux of matter is stopt in the fishela while the Sinus remains. This may be done in some Constitutions, or when either of the two lives are in hazard of discovering some parts, which if destroyed or sportes might be of considerably but consequences. E. G. If the fishela runs near agreat artery, Vein, Tendon, or Nerve, or spungy bone, even by a single separation of the lallus these might be law bare, eroded, or destroged, the consequence of which , as you may gather from the history of Wounds, would not be very fourairable. This palliative live is performed by giving such medicines internally as may dry up the Humours from the Fishela, as by Surgatures, alteratives &c. then by a very strict Regimen of the nonnaturals

76 to furnish as little matter as popible, while at the same time the Fistule is dried up by Desiciant, Astringent, Topical Applications. Now before I finish this affair of Ulcers, there is one or two lautions necessary to begiven. 1st Upon the Supposition your Satient is Caeschymic of an ill habit of body, and you have the least reason to suspect that by the Ulcer, nature designs to dis, : burden herself never be too hasty in shutting up this Butlet, otherwise you may soon kell your Satient. 2. If the external Ulcer be only a consequence

I'm internal part new farry for life being affect, ce, and thus the matter opts Vent, do not force a lientria too loom, neither in this lase shouls it be attempted, till the Satient's Constitution is corrected, or that particular noble part is cured. The neces, sity of shunning this Book on which so many have this wreted, you'll see by considering the following Observations. Flitten lent 3. Obs. 39 relates the lase of an old Gentleman who had laboured under an

an Weer in his left Ley for several years; this 77 author proposed to cure him by correcting his ill herbit of Body, on which the Ulcer depended; the Gen, theman thought this method ter ledious, and employs ed some Quach, who very soon skinned the Uler over but he was after severe with a Meurisy, cought our some some before his death a considerable quantity of matter, exactly the same as was formorly evacu. aled by the Ulter . _ In the appendix of the seine Observation, he tells us of a young Gentleman, who dred very quickly after having by external medicines put away an universal Scal he had over his body. Wiseman . Book 2. Chap. Obs. 1. gives an instance of a maid, who upon allowing en Iswe in her aren to close, was thrown into a Rheumansm, & the first theta that relieved her was opening the Spice again.

Gangrene a Sphacelus.
We now come to the there manner of an Inflamma.
tion terminating vir in a Mortefication, which
when it is only pential, slight, a beginning in
any

78. any member, is called a Gangrene, if it penetrales into the very bone, it is called a Sphacelus by the Lar tens Sederatio, velgo, Ignis Sanch athoniej, St. Mars tralis, the some of these names be applied to alone I greno, some of them to other diseases. Now, tho an entire stopping of the Circulation in any part of the body does for the most part happen after Inflummations, yet there are several lases where a Theginone legitima has not preceded, but since the management in all is pretty much the vame, to muche the history of this disease more compleats we shall consider all the luses of it, and the manner in which it may be produced. Thatever is capable of producing an Inflam mation, will, when in agreater degree, bring on a Gangrene or Sphacelus, These Causa over either a too great quantity of Liquids, or the Velocity increased, or a disproportioned largeness of the fluids to the Vefsels, or a Construction of them, or a Compression on the return ine Vehels de which have been alreedy considered when des coursing of Obstructions, and in the history of Inflammations

Inflammations, therefore not necessary now to be repeat? ed, and there are always daily so many Instances of Inflammations degenorating into Gangrenes, even whon great lare is taken to prevent it, that authoritys need not be adduced to prove the fact. -2 by Mismanagement of an Inflammation in applying improper Medicines E.G. by using Repellents, or acrid Emplasties, if the Inflammation is come to a considerable height, a Gangrene may be produced, as happened to algentleman, whom Wiseman Lib.1. leys. 3. mentions. 3 dy an denimony in our Liepuds, whether it depends upon the Stagnation of these Liquids when extravas sales, or of the mass of flinds is corrupted, many bring on such a Destruction of the depels, that the Circulation is greatly or in part stopt, hence so off Gangrenes upon de Ulcers, or extravasales blood, or upon Jevers, small fox, measles, Survey; by con, sulting Hilton de Gungana & Sphacelo, Wiseman Deb. C. Cop. 2. Decher's lacret Fract cina Sudorifico et Diaphoreties, you may be fully convinced.

80. 4thly When the Solids either by their too great rix egidity or Laxily are not capable of propelling their Liquids, the motion of these must cease as we see is often the case of oto people, such as have been exposed to violent lows, those that labour underan Higorops, such as have lost agreat quantity of Rood after violent Contascons, &c, as these cluthors just now cited sufficiently by examples evince. 5 the By the application of Septre medicines that are so and as to destroy any part of our Bodie's they touch, as the Lap Caust Inform. of Oitriol. Butyr. Untimon, and under the head may be clased all Burnings, where plainly the lase is the same 6th Several Sorts of Forsons have the same Effect, the' we cannot ausunt how they operate Doleus in relogied. Chirurg, Lib. 6. Cent 3. tells us of a Woman, whose Leg immediately Gangrened after the Biting of a mad Dog. Fildan de Gangr et Sphae warns us of the bad Consequences of arsence being explied to Ulcers, by an instance of a Smith who was hills by the use of this medicine in a few days

He there also confams what so many release to be the 81. effect of that wonderful poison in the Haque on a vio; lent Gangrene in the fleshy parts of the Body; The Biles of several sorts of Serpents hewe the same of: feet; Tis said of the Tilia mas and Tree in ame: rica that if any point of the human body be touched with it, immediatly their part gangrenes -1. We have reason to suspect a Gangiene upon de Serving the preceeding louises, and that this begun, by the Insensibility of the part, the nerves being destroy. ed with the rest of the Vefsels -2 The Colour changes to apale ashy brown, livid, or black, which is plainly owing to the different Changes of the corrupted flood -3 The Vepels now have no Spring or Elasticity hence of the part seems soft and flaced, and bears the print of one's finger when prefiel. 4 the The Blisters rise full of yellowish and read ish Liques, which is nothing else but the aires corrupted Liquiels escaping out of the Nefels, and endeavoining to make their way out wards, and not compable of

12 the destroying of the Girdermis, which is among the parts of the body that igreto least to forrytion, the its Chesion with the lutio is but slight, his raised up in form just now described 5thly If an Inflummation preceived, all its Symp? toms abale, as the Gungrene invienses, the there is no removal of the luise billy If it proceed from Cold there is a violent priching pain, and intense redness; in the part; then very soon after the black Gangrene appears. Since a Gungrene and Sphacelus differ only in their degrees of Mortifi: ration, from what has been said of the first we may easily judge when it degenerales in to the last; the Member there luns quite insensible or stupid, so that cut or burn or do what you will with it the Satient feels it not any move than if it was a log of wood; It becomes cold, soft eine flatby, or if the Liquids have been much exhausted & evaporate is handens and turns rigid, especially if strong Un; tisephies have been used, which may lehewise save the Cadavarous stinking Smell it is otherwise attended with

The Troynosis must be drawn from the Constitution 83. Sex, and age of the Satient, the State and Course of the disease, the Season of the year and the part of fected; so that Gungrenes of the contained Viscera of the three Cavities are deady; the reason of the assertion is the same as in Wounds, but greater. A Gangrene in a moist leax spungy peut is very def. ficult to cure, because there it easily spreads -A Gangrene or Sphacelus from an internal Cause is much worse than when they come from an external one, hence Scorbietie, Hydropie & Shthisie people so seldom recover, and not once in an age will an old person surged with a Sphacelus from @mere defect of the lumbation escape. A Gangrene or Suha: celus, that begins in the Leg and mounts upabove the kneep is for the most part mortal, because thus spreading it denotes an Obstinacy in the Sphacelus, that is, the fauses are very violent, besides, the amputation is worse to perform above than below A spreading Sphacelus allended with these Symptoms,

of 4. a Reflesness, Raving, Delirium, which two de : notes the height of the Fever or Obstruction; Fait ing, Belching, Hucup, and Convulsions, which are all owing to a defect and unequelar distribution of the Liquidum Bervosum; Violent racking pains, which depend on the Sharpness of the putrio maller, or great Impeters of the Fluids against the obstrue: Ted crepels; Cold sweats, the body becomes paralytic and the fluids easily escape in great quantitys at the relaxed pores of the Shin, then Lastly, Lethangies Sleepines or apopleay, at which hme the whole natural Faculties are destroyed and the Vital will soon follow. For the lure, we one to endeavour to prevent the further progress of the Gangrene, and to remove the part already gangeened For preventing of the first we must consider the sever ral lauses on which these diseases depend. If from an Inflammation we must have recourse to the history of a Shlegmon: If from acres extravas ated Thirds, we are to make way for the bramation of

from a mala Temperies, that must be corrected. If 85. from a defect in the Circulation, we promote that . If from lots, by immerging or wrapping round the member in cold water or Inow for a lette time, that the Spi cula a little Sarfules may be attrailed, as we see plainly done with frosted fruits, and we are sure has been done in this very face - Wilness, that remarkable Story lots by Hilbern. de Gangret Sphar Cap 13, a you have it in munich's Chestury Sib. 1. Cap. 47 S. 35 after this cold explication, the finulation is to be promoted, and the part kept warm, endeavour, ing to make the Satient sweat, which will help the total difussion of these Sartiles of Colel, as of these particles of our Fluids, which had been affeiled wit the lots. If the Gangrene owes its hise to Septie Medicines or applications of that nature, or to Soi; sons, these are to be removed as soon as populle, and at the same time such things are to be given in; terrally as are known to be prevalent for such The management of the part itself when once it

86 is gangrened is much the same in the several fases. For there is always a necessity of separating the montofied part, and le prevent ils Corruption before it be separated, lest any of the corrupting matter getting into the map of blood oreale Fevers Shitt. is, Apopleay & for the reason we scarife the gangrened part into the quick, or till it blood and is painful, then the antiseptic formentations and lataplasms are to be used, which are wholly made up of such med wines as most powerfully resist pubefaction, such as absynth. Rut. Scord. Cha 2 momil. menth. Salv. Rosmar. Flor. Lowend. Sabin. Puley, Hyp. Marrub. ag. Calcis viv. au hum forte, Spit Vin Camphorat. Of Torebinth. The mai be at the sum time endeavouring by the strongest Digestives to raise a Suppuration at the edges of the exengrened parts, by which this may be loosened from the sound arcumforence, and when once the Eschar is brought away, the morti: freel part is to be weed as a common theer When the Gangrene has degenerated into Sphacelus which

we know by the loldness thro' insensibility of heinge! of Colour into a darker, there we are cefilly of taking all the member that is affected as far as it is so, of it is such a one as can be amputated without inevitable death to the Satient. But if either the Satients lase will not allow of it, E. G. If this low ly from an altrophia in an old feeble patient, or if it happens where there is no possibility of am: -putation, for instances in the Buttocks, we must take one of these two methods, either to embalm the part so as to prevent it from putrefaction, and render it a piece of mummy, which is the most proper method on the first supposition, and there are some examples of this succeeding, after the ly, pluation of those antisephi medicines we have al ready mentioned -Hild de Gungo et Sphecel. Lap 7. mentions one from Smelius. The Mustrious Boerhauve tells as of the Case of a woman at the Flaque, who by the application of Tordium and Spr. Vin. has her Lear thus preserved from Conception. Mature

88 at length gently separated the sphacelated pert and with a very little apristance performed the Cure. In the This osophical Transactions 1.313 9. 41. you'll find the Story of a poor woman who had her Leg and Thigh this preserved for a month a two, and in as many more the whole mortified part separates, the Limb was without any hazard cut off within a few inches of the Trunk -The 2? Exception against emnied iale ampula. Hon of a sphacelates member is, when the yeart cannot allow of it without inevitable death to the Satient, all that we can do here is, by deep In rcision as near the sound part as we can, then by actual fautery cond Escaratre Medianes to destroy what remains of the mortified flesh, for thus we heisten the Separation, stop any flux of blood that may happen, and prevent the absorbing of any public mallor, into the map of Blood. Some pretend to do this entirely by the use of Escaroties, but it is neither so certain nor so speedy. We know that our pains are likely to succeed by the diminishing

diminishing of the Symptoms, of Fever, Syncope, 89 Vomiting, Delirium & by the progress of the Spha, celus or Gangrene being stopt, by the lively Colorn and moistness with good Pus at the Lelges. When the mortified flesh is separated, it comes to be treat. ed as was said when on Gangrenes or malignant ulcers.

Now, unless these Exceptions occur, the best Me. thod of treating a sphacelus is, to amputate the member in which we are to observe these three ge, neral Rules.

I's To save the sound part as much as possible of the sound separate entirely the mortified part. This I know some evithors won't allow of, and aderise rather to leave some of the mortified part. Their reasons are to prevent the Hoemorrhage; and to save the Patient Sain; but these cannot be of any force, if we consider, that if the Rules of Art be observed, there is no great danger from the flux of blood, what small quantity of blood it lost rather serves to unburden and remove the Obstruction from

go from the Vefsels, whereas when the public sub: stance is left, the Obstruction is continued, from which and the sharpness of the putre matter, the Sphacelus increases and spreads, and lastly, the Luce is prodigiously prolonged by waiting the falling of the mertified part, and agreat part of the bone being left bare; you may see the matter hand led at length in Hildan. de Gungr. et Sphue lay b Viele munich's Chirung, Lib. 1. Cap. 17. S. 53. We must perform the amputation so that we may leave the most convenient Use of the member to the Satient. The different methods of perform. ung this operation of computation, I may have oceasion to mention when I come to Gangrenes and Sphaceliss of the particular parts. -I should now go to the fourth way how and In. Mammation may terminate, viz. a Schwius, but because when it comes to this, all the symptoms of Inflummation go off, and that it requires a different breatment from the inflammatory hime, I shall afterwards speak of it, as all that breat

heat of this Subject do, as a different Class of 91. Sumours, and therefore proceed to the history of In; flammations, by running over the several species necessary to be distinguished, and then observing them as they affect such and such particular parts, from which they arguere distinguishing names, & require a different breakment -Furtinulus or Boil. This is a prominent inflammatory Justle with a small head never bigger than a Regcon's log, seldom penetrating deeper than the common Jequiments, it soon suppurates of itself, throws out a small quan lety of Jus, and as Celsus Lib. 5. Cap. 23. S 8. has it, heals without any medicine, the it is certain; by better to treat it as a suppurating Theymon; This sort of Tumour is very frequent in Philoren, peering them of much more seione malaries, as I have seen when they have been all over why or Scabby, or feverish or had some Eyes -Thyma & Shygethlen_ The Thymeo is much a hin to the Furuntulus, which

92 is just such another Sumour in a gland, only it sometimes becomes much larger

All the other inflammatory Tumours in the Glands, which do not easily suppurale are called The Diagnosis, Ingnosis, and (ure are easily known from what has been said of the Thleymon; only parkeular Courtien is to be had, that the absolutely necessary to bewore of Repellents if strong, or Refrigerantes, for fear of making it degenerate into a Schirrus. Ifthe inclines to suppurate or the lase requires Evalue ration, we are to procure this Evacuation as soon as we can to repen is perfectly before we open the abreef, to remove all the hardness of the Tuman by promoting the Suppuration with powerful De egestives. larbunculus.

Avosa, Parto, Ignis Persuis, Iruna, are all names for one and the same Tumour, which is hard and intensely red in the middle liable to turn into a black trust, whence it has got its name

names, this commonly surrounded with Justules, 93. whence a very Moices trichles out; and allended with most racking pains, and violent Symptoms of Inflammation, such as exceptive Fever, Deli; rum, Vomiting, Convulsions de Il always prou ceeds from lacefswe fever, or extreme ill habit of the Patient's body or pestilential infection, then the said to appear as a Symptom of the plaque, hence 'tis plain the Francis never can befavourable -In the luce particular regard is to be had to the Jever gits attendants, and therefore a very strict low Diet must be enjoyned Evacuations used, and pro! yer medicines exhibited according to the Satients Constitution which properly is the Physician's As for the farbuncle itself, this to be treated pre. usely as a Gangrene viz. by separating the af. feiter part from the sound, which must be some by Scarifications, and the strongest Digestives, then it is to be weated as a malign When Fris

94. Erisypelas.

This is also called Ignis Sacer, or Prose, and has always been heater, I know, hitherto as a dis; Finit Species of Tumours from the Inflammation; the reason of which seems to have been not to tose one of the four predominant Galenial Humours, on we the whole System of med icene and thinungery was founded. But since from unanswerable arguments this System is now explosed, we are now no longer to bails on it, and by exemining the oppearances of this Tumour, of which we now treat, it will be evident that it is as much an Inflammation as the Thegmon itself. ___

An Exispelas then is a red but painful Tumous, not sensibly raised above the Shin, yielding to the Jouch, and when pressed, losing of its red ness, reach, and no deeper their the Tunua Cellulosa; for the most part preceded by a Shivering and autompanied with a Fever. In this description let us observe the tedness, heat, pain & sever, and we must plainly

see that this a Distension of the small lepels, 95. from the red Globules of the blood, with an increased velocity of our Lequies; that is an Inflammation. But then it differs from a Thleymon in these par: tuilars, that its redness is not so greatly intense; nay, prequently it inclines to a yellow Clown; then it wants the pulsation with which the Thlegmon is attended. Further, it is not raised, but has an equal Surface, nor does it go deeper their the Teguments, contrary to the Theymon, Lastly, it yells easily when prefid, which the other does not The different appearances of these Tumours seem to depend entirely on the different Series of the Ves, sels, the obstruction that forms them happens in, & the degrees of that Obstruction. The Ensypelatous matter is lodge in smaller Ves, sels, as appears from the want of such an intense that red Colour, hence the puls abon cannot be so sensible, since the force impreped upon the blood Heart, and to the smalness of the Vessels, hence also

96. also the Tumour can't in any particular place be thrust so far outwards, nor ean it have such a resistance to ciny compreping force. The Alru ted mether seems not to be so fully impacte in the Erisypelas, as in the Thleymen, as we may learn from its yelding to the Touch, from the shange of lobun upon the gieting, from the prequency of its shifting from oneystace to another, and then it's much often wire by Resolution. From these two Datas, we may account for the Compound Tumours that pur take of both their natures, which are called Shlegmon trisupelatodes, and trisupelas Phleymatodes, according as they approach in their Appearances nearer to the one or to the other, and if once we are acquainted with Eldematous and Scherious Tumours, we'll soon understand brisy. quelas Schirroides and adematodes. The external fauses of an Erisypelas are much the same as those of a Phlegmon more frequently indeed the Rise depends upon an internal four as we have good growns to believe, & this offner a fritical

e Critical discharge from the mass of blood, than occasion: 97ed from an external lause, from the decrease of the Terror as it breaks out, and the dangerous symptoms that supervene on its returning studenty. The Grognosis here is the same way to be drawn as in the Theogram, with these and itions, that the more intense redness the Tumour is of, so much the worse consequence. If it gangrenes or suppurates, the fure will at least be terious and not without a good deal of danger to the Satient, according to Hip. powdt. Aphor. Sect 7. 23. because the Tunia Collulosa is of such a spungy Substance and all ils parts communicate so easily, that it will afford so great a supply of matter as cannot soon be evan suated, and therefore must bring the Patient very low; if all on a sudden the trisquelas disappeur, there is a great hazard of the matter being convey; red to some part necessary for life, therefore no very favourable Irognofis can be made upon this Event. Sypoural. Applos. \$ 6. 25. and the same reasoning holes good, if an Erisypelas supervene

98 on an Wheer or Wound or Fracture, or Bare Bone: Besides, that in these last lases it denotes a Cawether, which is enough with this addition of those diseases to destroy one -A Rose in the nech, Head or Jaco is more dan agerous their in any other part, because the frehen maller will in some part be in hazand of enterin within the Shull, since before it comes to any of the eaterned parts, it must be conveyed by the com mon branch of the Caroled Artery which also say plies the Encephalon. Now if it degresites that on the Bruin or Ecreballum, what meschief may it not occasion; and upon the supposition of there being only an obstruction in the external Branches of the Carotio arloy, a greater quantity of Blood must of necessily be conveyed by the in : ternal, and therefore the inephalon is in hazin If the Erify relas suddenly disappear, and at the same time the other symptoms increase the Patient runs agreat risque of his life since the matter of it may be thrown upon some part necessary

In life, et e contra, or quite ejo off as the Erisypelas 99. disappears the a good Sign. This Hypocrates remarks Aphor. Sees 6. S. 27. The greatest peut of the fure consists in moderating the violent Impetus of the blood, and correcting the rasherian Caroethes of the Sahent, that is upon the Supposition that it proceeds from an internal lause, therwise, the external is to be removed immediately, to thut a spare diet and plentiful blowing and surging do prequently of themselves perfect the luce. Witness Forrest. Obs - Chirurg . 123 and so Cap. 6 Mr. 6. Several authors by Sudorifies endeewour to make the whole warmaken by the Fores of the Skin, ret this certainly is a dangerous fractice, for fre quently in gute of all that can be sono, its not ropeble to force Swearing when the Vefsels are very bull; and then these tredicines in their operations violently increase the Velocity of our Lequis and heat of our body. Besides, as Seinchoorens from his Experiments heis demenstrated, less is evacualen by the greatest sweat than by our common insensible Transpirations

100 Transpirations, wherefore as to the general mas inagement the former method is the safest. But then the greatest difficulty is in the topical ap, Eplecitions. This we know that we done not extern, to drive back the obstructes matter, into the map of Rood, and then we must take penticular care to shun its Suppuration or Gungrene, so that the only way left is to keep open the pores, and by them to asist the Evaluation of the morbid matter Now there is a provigious variety of medicine recommended by authors for this purpose, agreat many of which are of as different nectures as can well be imagined a Prescription that one tells us he has done wonderful lures with another Instan is where a gangrene is brought on by it, as for instand Scultet. in his amament Thirting . Obs. 63 affures us nothing is compensable for an Erisypeleis with this Linimenhem Simplea which is made of Lethary. Cerufs. Succ. Solun. and of Assar. or instead of it ol amygdal. dule by which alone he has cultid innumerable Roses. Hildan Cent. 1. Obs. 82. lells the lase of a Countrymen who labourer under an Eri. 101. sypelas, which by the anointing of it with of Ros. gangreneel. Aquespeno. Wiseman, munich and most Writers recommend both Clies and Antaids. tometimes separately, but mostly miset, as trela Terra fimalier Lithary. Cours. Le with vinegar. Muys Decad . 1. Obs. 5 makes it his whole aim to whove the aid ferment that is the occasion of the Tumour From this jairing among Buthors, I must own Gentlemen, that after consulting a variety of them, found my self more embarraped than when I be gan; nor is it populte lo reconcile the Contradictions they abound with therefore, without hazard to any of them, I shall first mention those lyplicate; ons that reasonably appear hurtful and are gene, rally allowed to be so, and then give my own opinion as to the management -I. Then, all the unetwous medicines of what na here and denomination soever, whether Oils, oint: ments, lestaplains, or Plaisters are to be avoided,

102 as blocking up the pores of the Skin and hindrin L'esquiation, which is of worse consequence than any service they could do; by relaxing the fibe is of advantage. 2 delle such lyplications as strongly stemule the Vepels, and create pour, are not to be used for by these the Inflammation would be increase and the Obstruction confirmed, whence Suppuration o. Montification would be brought on. 3 y Such medicines as powerfully construct the so elids and coaquilate the Liquids must be discharge because they straiter the pones of the Shin, and me fire the obstructed matter back by the Veins into the map of blood, or produce algangrene -4 the all violent Relaxants, such as hot formentation zons or lataplasms are not to be used, because the Ja 2 mia Cellulosa is naturally last of itself, and if this natural disposition is too much increased the Li-Equids finding too little resistance would be thrown thither in greater quantities, that is, the Tumour was be increased; besides, the heat makes the Liquids more

capable to corrupt.

In my opinion then the safest and mest effectual method of luce is, to observe strictly the general me, thool abready mentioned, and to heep the part affected as soft and easy as popele with such applications is may greatly promote Perspiration, either as Re. solvents or as libsorbents consuming the moisture ex. hated; for which reason I would not much oppose the famous meal pork with the mealy siete appli; ed next the Rose, provided the poch itself was soft enough, and renewed whenever the meal began to twen eaky with the moisture of the Shin Norshould I absolutely refuse green Lint and Chalk, if the Shulk is finall enough pounded and the Lint without This vert. Hor. Sambur and Jul. Sabin applied in a Say, or the folds of a Cloth either dry or moistened we aret valy or Samburinum or white wine are might they ened up by some, and are the only applications they will allow of for an brisypelas in the face, and truly it seems not to oppose any of the Indications, merroed they are not applied cold or hot but toped.

104 Spt. Vin Campherat is the most general use is This lase amongs tus, and truly seems to answer the Intentions well enough by softly stimulating uni at the same time rescling. A Decocken of Seels alth. Flor Chamom . Sambur . Se in white wine ? water with acetum and Spy Vin Comph. must ce rainly be proper, if applied topis, as I thenk all applications here should be; for if they are rold to construit the Vepels, and may preduce a gangre if hot, the Inflummation is hereby increased, wh eas when of the same degree of heat with the parte which they are applied, they exert themselves without any ill consequence. If the Erisypelas is attended with lettle flisters as it frequently is when the Inflammation is very high en and the thirner part of our Liquids escape between the letis and Epidermis where they cannot now

the letis and Epidermis where they cannot now pass, in this case the Blisters must be suppled of for fear the Ligher in them him acres and destroy the subjacent parts. After they are cut, a Fleoget with some drying bintment, such as the ling? about Juhe

Age is to be applied. If the Erisypelas suppurate on 105 progrene, itis lo be treated as was directed when on these two maladies. Effer the Rose is removed the mala Temperies which was the occasion of it is to be removed by the Physician; or even supposing no placoethes, it will be necessary to endeavour hiera: exerces of any merbific matter which may still be wooded in the map of blood When thus the general inflammatory Tumours are understood for the inflammatory Tuberculars pap over as belonging to the diseases of the Shin) there will be no great difficulty of managing them when they seize on particular parts, which accord? ing to our former proposal we are now to consider as far as they have got particular or distinguishing names bestower on them, or regions cony particular manner of Treatment differency from the general directions laid down. We shall begin at the Head, and go on by the Trunk to the outmost Extremities, and first then as to Inflammatory of the mous of the dige -

106 Inflam. of the Eyes.

The lyes are subject to several inflammatory In mours and illiers, which are particularly later notice by authors, but these I reserve till we tree of the Maladie's of the lyes.

Inflammations of the Lips are not to be fretted to much with aired medicines, nor less oriolently a be repetited by astringents, lest they degenerate in a Schirchus or lancer, otherways they differ non thing from other Inflammations.

Inflam Jumours of the Mose.

The More is sometimes seized with a putino stinking ulcer called an Ozeena, but that depends on a facious Bone and therefore now not to be hundled. Parotis, or an Inflammation of the Glunds of that name is a species of the Phygethlon & receiptures precisely the same management as the Lips.

Inflam. Tumorurs of the Ear ___ When Inflammations happen in the Meators auditorius

a in the lar itself, by the general linksphlogis, 107. the method and emollient Injections, and vapour received thro' a funnel in the lars, we endeavour to resolve it; If it does suppurate, by detergent Injections we keep it clean; if the matter like. were is internally and comes away by the Tuba Eustachiana, such Gargarisms will likewise benece pary in this last lase indeed there is con; siderable hazard that the Patient may lose the Use of his Ear affected; the I have seen the Hear. ring recover perfectly in a lettle after -The Uvula, the commonly mentioned, has no , thing in it pentiular . Inflam. Turnowry of the Tonsille The Glandula Tonsillee, whose Tumour is called Sarishumon have as lettle, and the management is the same as in the Inflammation in the other parts of the Fauces, when it obtains the name of angina; only that besides the external application Gargarisms must likewise be used. If any of these supperate, mr. Petit's machine which

108 which before was described for making an under experture in Sinous wounds, will be the most convenient Instrument for cutting into them to Discharge the Pus.

If the Tumour is so great as entirely to hinder Deglutition, we must cleange the Guts by a shar purgine flyster and efterwards inject nutritive Liquers to nourish the Patient, till once the In. flammation either resolve or supported great, so that the natural passage for our alements is again open . If by the Swelling, the Ingress on Egress of the live to and from the Lungs is us; : lerrytes, the Patient in alittle time would be sufficielled, to prevent which, we must perform the operation of Bronchotong, before it come to last extremity. I know that this operation has very often been unsuccefful, but it is entorely owing to the delay the Surgeons make to perform it, fearing, if they should die, the blame might be laid at their door by the ignorant helations and Visitors who declare a mortal aversion at it,

and cannot conceive how a mais life can be save by 109. culting his Throat. But these that understand the matter know that in a cautious hand there is no danger, whereer a few minutes delay would inevita. by hill the Sahent ____ Inflam. Tumours of the Thorax. Inflammations and Ulcers of the Thorax hour no: thing very special in them, unless they have degrene. nated into a Sinous Callous Ulcer or Fistula, and then only when it penetrates into the favity of the breast, or sligs under a Rib, or affects some of the Bones. When a Fistula Thoracis penetrates into the breast, we should examine very neurowly whether it depends on an internal fause, such as a Comica Sulmon. or any other internal Collection of Matter, for in this Case the fistula must be kept open, else you destroy your Latient, as is already proved by several se. apples. If it only depends upon an ill treatment of an Wound, or some external libs cefs, we may endeu. 2 vous gradually to separate the Callosity, and to fell il up as was directed, when on Fishela in general;

110. only agreat deal of lecution is here necessary, less any of the Escarotic medicines should full into the breast. When the Fishela has its Orifue above, and has insinualed itself downward below the Rib, wo must beware of following lelsus's method who, Lib. 7. Cop. 4. S. 2. advises us to lay it all open, upon the cutting thro' the Ribs as well as the soft parts, for thus the Intercostal Merves and bleod ves esels would be cut asunder and the Rib would be render'd carious: But we had better do as aquapen directs de Oper Chirung. lo introduce a crooked Canula into this Orifice to the bottom of the Sinus, so that the entherity of the Canula may be turned outwards, then with celong crooked needle, whose eye with a thread in it is not far from the point, perforate the ungerpart of the Sinus, and have the thread like a Seton in it, Thus, the Matter will easily fine an seit, and proper medicines may be conveyed into the Sinus; when once the sufficiently cleansed the Thread is taken out, the superior Oris Eque) is allowed to dose up, the inferior is hept

some tome longer open for discharging any mat; !!! ter that may still come away. If you find it ne. cepary, you may keep this as a Tontanell or flue. by putting daily apiece of Tent in it. - These Sinuses or Fistules of the Thorax that affect any of the Bones are not now to be treated, since they differ nothing from others, but only in so much as the are attended with farious bones which is not our present Subject Inflammatory Tumours of the In: -quinal & dxillary Glands -These are indifferently called Bubones, nay, the an; : Pients took this word in as large a Sense as the Sheggethlon, the he most part of moderns confine it to the Swelling of the Glands of the Grown . Now, the Swellings of this as well as those of the arm; spits is the same as that of the Sarohs or Phy, gethlon & therefore needs not be repeated. Influm. Tumours of the Glans. The Glans or bullous Extremity of the Ponis in Men, and Propertiem, or double folding of the Shin that

112 covers it, are both subject to Inflammations, and then either the Graputium is abready upon the Glans and because of the pain and Swelling cannot be drawn back of it, so that they are in hazard of growing together, or of the glands being too much compresse which disease is called Thymosis; or else when the Inflammation happens, the Prepure is retraited and makes a strattning round the neck of the Glans, which obstructs the free anulation. This malady is commonly known by the name of Sun phymosis. Both owe their hise to the common lauses of Inflummation, but most commonly to vrolence used, or to Venereal matter, and unless this speedily remedied may bring on a Gangrene on the parts affected and afterwards on the whole Genis The Method of lune is first to attempt the Referencion, as of other Inflammations, only with this Courtion, that by means of a lircular Belly band, the Penis is always to be supported upon the absomen, and never be allowed to hang

down, for fear of giving an easier descent to the 113. arterial blood, and a more difficult refeent to the Venal, which infallibly would increase the In, flammation; and then we are always from time to time to endeavour to uncover the Glans in the Thimosis by gently pulling the Prepuse back. wards, and in the Jaraphimoses we try to cover the Glans, which reduction is proposed to be done thus with the fore and middle behind the ring of the Prepuse at the Neck of the Glans The fore: shin is brought forewards, while at the same time with the two Thumbs upon the extremity of the Glans, or at its sides, that body is thrust back. wards, but this Compression of the Glans makes it thicker, and therefore worte to reduce, there. fore others propose not to touch the Glans at all, but if we can any way get it elongated, which makes its smaller it would render the redution more easy; therefore we may by mr. Setil's method of putting a small uniting ban, Dage round the Glans, with two ends, by which we

114 we may strekh the Glans somewhat, white we endeavour to bring the Oraqueteum apon it. If none of these methods succeed to either one or other we without delay proceed to the Operation -That for the Phymosis is their performed, draw the Prajutium forewards with the external and internal Shin as equal as you can, then by this stretching them they will cut more easily and also more equally; then introduce the probe point red blade of apair of Scipars sideways between the Iraquitium and Glans, and raising up the edges, snip it clean thro' at once; or, introduce the same way as mall Bestony with a bit of war on its point, thrust it thro' the farther part of the Irepuce, and cut all quite thro. But be rause the war is liable to fail before the In. estrument is far enough introduced, me Peronier proposes to use Bistory Copie or Easie, the blade whereof is so taken out by undoing a Screw, that keeps is in the Sheath; when the Instrument is far enough introduced, he undoes that Sevew,

lakes out the Sheath and cuts the prepure wills the Blade the same way as other do with the Bistory. If an Incision does not sufficiently free the Glans, another may be mede and of the Tra. num is swelled and hinder the uncovering of the Glans, it may be snips thro' -In a Paraphymosis, small Incisions are made into the Glans, to give a discharge to the obstrue: led matter, the frequently these do more harm than good. But the most effectual way is to cut piece meal the rings of the Proputeum by slip. ping a crooked Bistory under them and raising the point quickly. --- After both operations small Redgets with vulne. rary Balsams and Digestives are to be applied to the Incisions, and emolient lataplasms over these, and the proper bandage with circular Bellyband, by which the Penis is sustained -Inflam. Tumours of the Anus. No part of the body is more subject to Influmma tiens and Obstructions, consequently Suppuration

116. Sinous Ulcers and Fistule than the anus, and swely no wonder, as it is the common sink of the Body, and surrounded with agreat deal of flutby substance, while there are few muscles to p. mole the Circulation of the Liquid in the Vefel. at the same time the Veins that return the Bood have a perpendicular course to make you words, and that without Velves to support the weight of the Tody, and then these Vefels are subject to compre sion from the handened Freces and external Bodie Now, when the Vefsels are obstructed, either Inflas mation, Homonhoids, or some such Tumours may follow, which afterwards suppurating, or the matter turning wired well occasion an Ulien, which in such a place will soon make a considera : ble progress, and that more enwards than netward. bewase the Shin will not so easily yield as the subjacent pents, therefore sown becomes knows, hence in some time Fishilous. These Fistules are either blind, i.e. have no open : ing externally with the Gut, or open externally and internelly

but one linus, or they are cunningerry like the sweral Sinuses. The blind Jishula are only quefeed at by the pre. ceeding Signs of Inflammation, by the Hardness, Ju! mour, Jain, and Inhing. The External are apprarent. The Internal are known by the same Symptoms as the Bind, & then the Latient evacuates the matter by Stool. We des: cover that they open internally as well as external: by by a mixture of the Freces alorne with the Matter evacualed at the external Brifice, or by the Flatus coming this way, or still more surely by introducing the Probe into the Sinus and the Songer into the Anus. As to the knowledge of the depth, magnitude, number & sufficient directi: ons were given when on Fishele in general, on by that if a fishele mount high up the but, his incurable, or if it pap the Sphincter muscle, it for from the other Fishele, only that before the operation

118 . Operation, the Guts are to be well cleansed . In the Operation the Finger in and may be afristan The Patient must be few with meat that yields lettle Freces during the lure. " After this he comes to the amountation of the Esix when spherelated, I have omitted, for which consult " Garangeot Cap. 47. 48. I heur only aperted his " Opinion about astringents to be applied to Stumps " after amputation. For mr Labourine and Verdyn " Method of amputation consult Ruysch Epist. 14. " and Garangeot Cap . hg . " In amputation after the large acteurs are se, cured from blooding by Miching, they were formerly wont to apply to the Stump Sledgets armed with allower Ovi, Bol. armen. Lang. Drewon & other astringents, but these are now laid aside, as run into Anoto, and creating pain, hindering a suffit cient Comprepion and sticking so close that they could not be removed without hazard of firing open the lifels . For these Reasons our Surgeons use pleta. sets dipt in scalding Oil, of Turpentine, or hot Spits

Vini, but in my opinion these labour under consi. derable disadvantages; for the they effectually stop the Revoling from the small Vepels, and do not Shih so close, as the former, yet they are naturally known to prevent Suppuration, and harden any parts they are applied to, which retards the lure of the Stump, besides, they are generally dapt to so hot, that they create grain in the very appli; cation ___ And therefore I have always ima. gined that the ony Hedgets themselves were the best medicines, for when they have imbibed the floor, and it begins to coaquilate, there can be no better astrin: gent, and then there is no impediment to the Suppu: ration, which goes on naturally and quickly; This very Suppuration or the Formation of Pus behind the Redgets and Shump makes them come off with greater ease. I am still the more confirmed in this opinion, finding my self supported by no les a Sur; above his first row of pledgets juits in as much addice as to make the Stump equal - Gerniones.

In the Winter, people that are exposed to Cos, are very lieithe to be affected with a Superficial Inflers. meetien of the feet or hands, which is not of such an intense remels as the Shlegmon, and is attended with a whiter and softer Swelling, for the most part a troublesome Inhing is found in the part and small justilous Wheers break out This sort of Tumour has got the name of Gernio, when in the hands, his commonly called thiblones, when in the feet, Ribes, by our Commonalty, Mouldy Heels. The Diagnosis is plain from the Description The Grognosis is wholly owing to the lasine for Difficulty, Tediousness or Luckness of the lure, for unless mored it is very ill manages, it is selsom of dan egerous consequence. Those of any standing are in has zard of returning, the parts being exposed to colo, these with pusheles are worse to cure than those without them; From the little danger of this disease it is that such a variety of infallible lures are delivered by

authors, and dogmatically incultated by all the old 121 women in Town; Turnips either by way of Fomenta: tion, or laraplasms are good Specifics, especially if a lettle Myrch and Turpentine be mixt, which is felsus's fure. But without troubling you with a Catalogue of all the medicines handed down, we thould certainly treat those Terniones as other In: flammations from Colo; that is, if we are called immedially when the Extremities are yet affected with toto, to apply for a little the coloest things we can find, such as Snow, Sea: water & to altract the Spicula of the Cold, as we see prairies to restore froster fruits, flowers and eggs; then by warm antiseptie Epphiations we endeavour to recover the natural heat of the part and prevent alan: igrene, afterwards heat them with resolvents, as other Inflummations to becured by the first In: healed as other putrid Ulcers, the Liquids are to be cor. rected of en an ill state, and Eld is particularly to be quarded against Lanaris

Sanares a Saronychia The Extremities of the Fingers are subject to Inflam emations, which, because of the extreme Sensibility the parts from the great number of Tendons, Nerves Is are attended with the most racking pain -If it is no deeper than the common Tequiments, the Tumour appears, but if it is under the Sheaths of the Tendons, the Tumour is not perceptible. By reason of the Communication of the newes, the whole lim is off affected, and pequently the most violent Jever attend it. This Disease is well known by the name of Janaris on Saronychie from its nearne fo to the Mail, in Eng, lish, Whitlow. The Grognosis is drawn from the deepness it goes, the concentrant Symptoms and Continuance of it; That is only lodged in the common Seguments, there is no dans eger, of in the Sheath's of the Tendons this more difficult to come at, and if it resolves, very long and large sinuses may be formed; If betwist the Seriosleum and Bone, Still worse to resolve, and suppurating endangers the Laries of the Bone -The

The Prognosis towards the Symptoms that ac: 123 company it are much the same as in general of In: flammations, whether the Pain is great or small, Fer ver indent a mederate, or attended with Selisium Envulsions &c. or whether the Arm is also influmed, or it is confined to the Finger, and then his plain we have a fairer lay to carry it off with the least dif. finelty. If we are called immediately upon the first appearance of it when if it is already considerably advanced, suppurated or gangrenes or degenerates in: to a Sinous Ulcer, or the Bone made carious -The same Indications serve here as in a Shley. mon, oir to endeavour The Resolution, if it suppurates it must be spened, shunning Herves, Tendons, ganter rys as much as posible, especially if there is any sup: position that the matter is contained in the Sheath's of the Tendons, or betwiet the Veriosteum and Bone, it must be laid open without delay, for in a little Time these parts may be destroyed by the Sanies. If it is Sinous, it must be managed the same way as

124 other sinuses, only because of the wast number of Sendons Ligamento &c. the part must be rut cautic ously, and truly, when the matter runs in a Sinus along the whole hand, it would both take avery expert surgeon and Unatomist to open it, so to shun the many dangers that by in the way; as by consulting Garangeot Cap. 46. Gould existly see confirmed. The last Species of Inflammatory True mours is the

Pterigon.

Or an inflammatory lacrescence near the Mails of the Jungers or Joes, it soon suppurates, or degenerals into a sorded Sanious Ulcer with proud flesh; of it; self it is painful, but still more so by the prefuce of the neighbouring Pail, the this Tubercle at first seems of no Consequence, yet of naffected grows to a considerable bregness and is extremely painful and troubles ome to remove. May by ill management it sometimes enoungers the loss of the Tinger or Toe -The lure of it is the same of any other sorow uleer oir with Desicants, with gentle Islandies, and Digestives

Digestives, the all other means are in vain, unless 125 we can get that part of the Mail separates that fets the Ulier. When that is once taken off there is no great difficulty in the rest of the lure

Oldemal.

Now that we have run thro' all the different spe: ues of Tumours, which happen in such Uepels as are cop able of receiving the red Globules of Blood, and that depend on the Entravasation on Obstrue: him of the flowd taken in the oulgar sone. Our method at first properly les me to consider the like maladies in the near flap of Vepels and Liquids which we can distinguish, that is which on the Serum and Lymph whither these Liquid, are obstructed in or have escaped out of the Ves. vels in which they are conveyed. There according to the ordinary division of Thimours arecom, prehended under the general des ig nation Di: AnyaTa a Tumous from Phlegm, from Hydrops after Celsus Lib. 3. Cap. 21.

126. The Species into which I design to divide this flag and which I find authors agree to distinguish, the prequently they heart of severals of them under the Same Tike, such as Rdema Unasarca, Lewophly matro, Hydrocephalus, Hydrops Sectoris, Hydrops ascites, Hydrops Ovarij, Hydrops Utori, Hydrocele By Ordema Hypovales expressed a Sumour in Joneral; Galen confined their term to pituitous Tumours, and here I take it in the most limited sense, or by it I mean a white soft Tumour without hest pulsation, or aute pain, for sometime the Impression of any impressed Substance and confined to some particular part or member. The Seat of it is met. 2 by in the Tunua Cellulosa, the matter of it is a thin watery Humour, it is formed stowly or by Congestion), and it seldom suppurates. The definition so plainly distinguishes it from any we have hither. to mentioned, that his entirely needless to examine the several Characters of it in order to observe the difference. Let us therefore proceed to the several

Courses that may produce it. Any Compression upon the returning lessels and Veins may ouasion such a swelling for by this Com. prepien the motion of the Liquids must be much re farded, and the Vefsels much fuller and more dis tended. Among the rest the small vefsels that open into the Tunua Cellulosa will now discharge a greater quartity of Lequor, and perhaps großer than ordinary, while it cannot in such quantitys return, as plainly is the Pase of Women with this or adematous arms or Leas with Bandages or Swaths, a with a big Theogram a Schirkus on a large trunk of a Vin - The Inactivity of the Dolids on the Liquids may have the same Efect, whether that de. yends on the Laxily of the Fibres, or upon the want of that adjunctory motion necessary for propelling the Liquids, or upon a considerable deminution of the quantities of the Liquids, for upon emy of those Suppositions the arculation must become languid the Liquids deprived of their dies brisk the tron, easily are resolved, and instead of driving on in advicet

128. Course non into the Caleral Beanches, and more expe cially when there is the least resistance to them, they there settle, but the Junua Cellulosa is one of the most lax places of our bodies, and has no compres. sing force of muscles upon it, therefore the most subject of any to give a Lodgement to these Liquid. hence we see Cloematous Swellings happen to wear Constitutions, or that use crude food difficult to digest; to such as indulge a Sedentary Life orto people that stand long, hence so few after they are brought very low by accele discuses, as Consumptions Melancholia, Teterces, &c. honce too large Evacuar hons by blooding and purging, too long fasting Gring en the pance disease. The Thinness of our Liquids may lekewise que Rise to this diseuse -Whether that is owing to the Inactivity of our Low. or too great a quantity of Liquids drunk while the Excretory organs do not discharge aproportional quantity. Whence so many Bon! Companions, Sign qualers of Liquids stand afair chance for this maledy

Malady, and very often acquire it . And lastly, the 129. Suprime of the Ochels by incision or too violent dis. tension, or internal Injuries may produce the same effect. A simple Odema of itself is not dangerous, the often levious to care. But if this swelling appear after an acute desease, but still more after one of long standing with a Chronial disease, it is a Sad sign If it bruks and the Water makes agas. sage thro' the Skin', there is hazard of a Gangrene by the Sudden collapsing of the parts already too much weakened, or else a sorded tedious When from the na ture of the contained Liquor that will not suppur 2 rate, er bes converted into nature's Lovereign Bal. Sam, Dus, and from the easter Communication of of all the parts of the Tunua Collulosam which it has its Seat -The Indications of Cure are, To remove the lause of the Tumour, consequently to prevent any further depositing of that matter, and then to resolve what is already collected. In the first Inducation regard

130 must be had to the several lauses mentioned -If the Sumour depends upon an External compres sing Substance on the Trunk of the Veins, that is be removed. If the Cause is a general Laxily of the Solids, by a good nourishment and strengthening Diet, and by corroborating medicines, the due Contractibly of the Fibres is to be restored. For this see Boerhaave is aphorisms. S 24.31. If want of Exercise have gwen rise to it, that is to to be supplied -If the Diminution of the quantity of the Lequies has been the occasion, by a good easy digested Deet that is to be supplied. If the adema exprears as the conser Equence of another disease, this is to be funder order to remove the Swelling. If the Liquids one too then, at the same time diminished inquantity, such med as corroborate the Solids and compact the Liquids are proper If the thinness of the fluids depends upon the Ingesta, and that their quantity is increased, there Evacuations, by which the thinnest part of the blood is escreted, are to be promoted, such are the Exerctory

Excretory Organs of the Guts; Frioneys, Salwary glands, which is done by Jurging, Duretucky Die phonetic mediines and Salwation; at the same time not to hinder the good effect of these medienes by to great a quantity of Legino Ingesto, and Lastly, if the Tumour groceeds from a bursting or breaking; by internal deglutinatives, 1. e. loagulators of the Lequeds and Compressión we are to endeavour to stop up the open months of the Vefsels. Inall these lases you see astrongthening Dut is now respany, and the use of two much drink, especially watery thin Lequers is forbie; moderate Exercise is of great advantage, too long sleep, constant Rest, melancholy Thoughts, and Venery are strucky to be fortio, as contributing every one to weather the Satient

No doubt, Gentlemen, you have observed that blooding is no where mentioned, neither is there any one of the fases that can allow ofit. The only Supposition that favours it is, where the Legues are loo then, and at the same hine the quantity is

132 increased, but upon opening allein you know both the Serous part and red Globules are waemailed, Now here the watery part of the blood ought only le be separated, for which jurpere the other laire - hons menhanes serve much bettor. Tis love that sometimes contrainduant Symptoms happen, which oblige us to use Ven. Sect such as a fever as a Pleuritis or other inflammating diseuses supervene, in order to relieve the Satient speedily and shun agreater wil, we let flood, but not at all to forward the lure of the Eldema The first Indication belongs almost entirely to the Physician's province, and therefore I have on In glanced it over We come next to the Resolution & management of the Tumour itself, which preperly is the Surgeon's business. The method of Resolution is, To increase the Evacuation by the Shin, and aresisting of the resuming any part of the matter into the map of blood, and to strengthen the relaxed Solids. In order to apply the vines aright, we must have regard

ugard to the confarmed matter, and statoof the 133 Sumour . If the matter is thut, which we know by the white Colour and the long impre pion it bears of the finger, we must apply Attenuents, suchas Rad Emul Camp. Bryon . Herb. absynth. Abrotan. Salv. Flor. Chamom. Melilot. Rosar. nebr. Sambue. by way of Jomentation with some Sal marin Gum Nitr Guneus Elavellat. Lucrein Sarment. Vites Shpitum Fabar. and Sulph. viv. dessolved in the Decochon with Spr of Wine or Amegar afterwards added. For the Formulas of which See Munichs Chirary. Seb. 11. Cay. NI. D. 11.12. Or, if the parts are il. ready weathered, and you are a fraw of hot Jomen. tations, make use of the attenuating yours such as Benzoin Galban Sueun Sagapen Mynh alors as a fumigation. The mether of fumegation is, Throw alittle of the perioder of these Gums upon the red loals in a Chauffer, recewo the fumes thereof in awooden Eloth, with which rub the tumified member, and

134 continue the funiqueting the floth eine rusting the member for some time, then wrap it round with the same floth and with a bund age swallet yr well, beginning at the smaller part emoby dolories mounting up, taking care that there be no Wrinkles or inequalities in the bandage, nor no place unevered by it. If the lower Ex. stremity be affected, a laced Stocking or Trus is still better then the baneage. If in the Jupe. rior Extremity the Glove may be made and truly to this Compresion of the bandage agrees part of the Rure is owing, nor will it do easily without it.

When once the Fumour begins to yielo, astrinical gents are necessary to strengthen the Vessels and to construct them, the quantity of these constructors increased, and the Tumour decreased. If the matter appears thin, as we may know by the clear watery Colour, and the quick return of the parts after Compression; By Frustion we assist the return of the matter into the tessels again

and supply the defect of the lax fibres. This 135.

Trustion has a still better effect, of Deobstruents to
clear the pover, and attenuants to prevent the struct;
ning of the matter are at the same time applied.

Throughour of these is the former method of
funcyation, or Spl. Vin. Lamph. or Vinegar and
Sal Kits: but the most effectual method is equal
Bandage. A simple Roema this manages sel.

If the Tumour inclines to suppurate, as sometimes by ill management it may, or if it has begun to gangrene, or has degenerated into a hard into. Lent Tumour akin to a Schirius, it must be heated as one of these maladies.

Anasarca.

It has much the same appearance as the former the Distrinction however that seems to be made is, that the aras arca is more general, the multir commonly thinner, therefore more moveable, and it

136 it plainly appears to be a Stydrons of the Tunice Collulosa, while the descending parts are much affected with it in the day time, especially the Legs swell, in the night hime they fall when the body is laid in a horizontal pesture, and in the morning of the head is low, the Face, Lychos ge are tumified The Courses and Prognosis are much the same as in a true adema, only that there is greater receson to suspect a greater Lasity of the Solids, and Thinness of the fluids, and consequently the use of internal medicines is movemente pary The most effectual way of curing this disease es by a drying diel with a small quantity of Drink, by pequent repealed Purges, if the Fac Hieros Strength can allow it; to promote the Conculation by Frietion or mederale Ganuse, lo evacuale the more fluid part by Dimeties or Deaphorehies for the evacuation of the maller thro the Shen; The Untrents used to expose the

Satient to the Sun, a cover them with the warm 137. Sand, the' in the use of these or such like; we must beware of too storching a heat for fear of raising a fever, or bringing on a Gangrenom the weakened pents, or inducing a putrefaction of the contained matter. The members most subject to swell are to be treated as in the fumer face by Trutions, Corroboratives, and Sweating Some propose to apply a blister, or to putan If we in the most depending parts, by which the whole matter may be evacuated. If the disease is in the beginning, and the Patient labours un. der no other elistemper, this may be the most quet way of freeing them If on the contrary the matady is universal, and is come to a great height, the Fatient at the same time weak and consumptive or hectie by this me. Thos his life would be but shortened, for by the sudden Evacuation and consequently Compreps: con taken of the tepels, the small quantity of is: culating signed would not be capables of filling &

198 distanding them all, nor are these las Vefsels able to propell these Liques, that is, the Circula, chon on which life depends would soon rease as happened in several lases I my Self have seen where nature either forced such an four, or the poses of the Shin were dilated so that the matter effued out plentifully thro' them . Two of which I shall mention. The one is of a Woman in the hope tal at Leyden whose Legs bursted at the Unples, by loo hard friction, and all the water was there evacuated, she died within two or three days there. after Beforeher death the part was entirely Sphacelated - The other is of a Washer woman in the water of Leth; thro the pones of her shin the Water come from her Ley's and Thight in such quer tities that wherever she sat, the place was wet all over, and she died soon after But even in the most favourable Supposition the part where mels to gangrene, or to be infected with a led with

sorded, sancoies Alcers, Therefore reather than by I such adangerous the quick remedy, we have better heep to the desicativemethod the more ledionis.

Hydrocephalus.

This general lerm may signific any preternalizable. ledvon of Water in the Head, & there for authors di. unde it into several Species.

1st Il may belonged in the Tunical Cellulosa & then it elifers nothing from the Lewophleg matio, which we have just now discussed.

In we discover by raising the Tequiments with
the Fluctuation of the water, and its falling monete
the depending part, in the different positions of the
head, the same method of Case is proper for this also
only where it does not soon yeels there is hazard of
the Bone below spoiling and therefores the Lan;
evet or Trocas or some such instrument we make
an agerture in the most depending part, & give an
locit to the writers & by Comprehen and Corroborative
med wines

140 Medicines hunder a new Collection. 32 The Seat of it may be within the Cranium, even

Membrane and Gia mater, or between M.

Sastly, In the Substance Wefsels of the Brain.

This Disease seldom happens but in Philozen wa least cannot be observed either The Dones of the Hea are perfectly united. The Symptoms by which to know it are, the weakly Constitutions of the Chebrer a Heaviness, Drowsiness, Lethary, Paralysis, 24 of the Senses, adisproportional Increase of the head to the rest of the Body, because the openings of the Head, as they are commonly called, in the distances Between the Bones are enlarged. If the Water is a book the Dura Moder and sometimes when it is immedially below it, these Openings are raised up ind feel very soft, with a sentible fluctuation of the Water But when it is loger within the Substance of the Brain, we can only queto at the disease by the precedent symptoms, sin adults it is but a conjecture at best The

The Trognosis here is seldom favourable, because 11. of the necessity to Lefe of the part which is allached, and the difficulty to come at the matter to evacuate it; then, if we do make an aperture, we can't promise to have the Evacuation at Command which by freeing the Brain los quickly of the Compression the course consequences might follow, as Obstructions, Gun. quenes, ye. son our great medicine vor Bandage for preventing such muschiefs, is of little service here, besides, the Collection of the Water, wind the symptoms by which we should discover it come on so greedually, their it is not notice, nor are we cal; Teo hill the desease is too far advanced There is therefore hazaro, wherever the matter is ledged, so certainly the deepper it lies below the Shull so much the worse Hence authors agree in Esteeming the Col. : lection in the Ventriles a desperate inimatte disease, All that we cando in the luve is, to prescribe as but Regimen in the Honnaturals, as in the Redemer and to use the same general med? there mentioned on the head slibble all en wants Applications are projer,

142 and I ontanels may be made in the depending part. to favour any fort that Nature may make encea; wouring all the while by the general Hear bandage such as the Expedine or Coursehof to preserve the Bone from yelding any more, but rather to make a slight Compression on the Bone - Several as elemple have been made to cure it by letting out the Waler at an aperture made in the mest fournable place, but because of the difficulties I mentioned, They have never been attended with succep but ra: ther hasten'd the Salvent's Death, as in soveral ex camples may be instanced. One author I shall only cile for all Vander Wiel Obs med. Jon- 2. Obs! 14 where you find a vast Careely from all the Ofter. waters of note, to preve the three different Species of this disease, the vast full some of these Swells ings have grown to, the symptoms with which they were attended, the deferent reasonings in ausunting for it, the attempts that have been made to cure it, the Event of these attempts whether succeptul or not Hydrops

Hydrops Sectoris.

The Cavity of the Thomas is liable to the same discuse of afollection of Water, for the same reason as all other (avities, which we shall consider more par hinfarly when we come to the Hydrops Abdominis where it is

most frequent.

The Hydrops Sector's is known by the desposition of the fatient and by the difficulty of breathing, the weight upon the Duesphragm in an erect postuce, Great uneas inely in lying on the side opposite to that where the water is contained, and the great necessity of the Latient's Ging on hes back if both lavities are affected: It is distinguished from the Matter of the brused Comica which is the only malady it is in Danger of being confounded with I by the gradual In wease of the Disease, & by the want of pain, inflam. mation, and fever.

The general Methor of luxers the same as in the ade. ma, or by a strengthening Diet, as roasted meals strong broth, & generous Lequent, as Claret, Strong ale but if the Latient is consumptive you are to for bear

144 the Use of strong Drink, otherways you will hill your Patient. The Prognosis is drawn from the Constitution of the Satient, as when on cloema in general, & the continu zance of the Malady, for if it is of long standing, is Viscera are in danger either to be relaxed & weather by souking so long in teped water, ir is it has hance putrid, which it is in hazard of, by the heat of the body and admintance of any dir that may escape thro' the weak membranes of the Lungs, I say, in this luse the Viscera have probably suffered and therefore much is not to be carreited in the luce which only can be performed by the general methor laid down, and the Evacuation of the matter by the Empeyema, which was particularly der Escribed some while ago, when treating of wound of the Thoraa -D. Eccles sometime ugo informed me of a sin. 'quelar lase of a Dropsy, which few authors have observed, vir . Hydrops Pericardy, Some Such Instances you'll find collected by Under

Wiel fent 2. Obs. 28. There is always about a 145. spoonful of Water in the Seriardium. Now this is ouasioned by too great a Segranation of this Li. equer, his very hard to discover this disease, for his seloom auronyanced with any other Symptom than a Salpitation of the Heart. This seloom appears. Dr. Eccles had a Boy who laboured under this dis, temper for a considerable time, the Symptom was a Salpitation of the Heart and adifficulty of breathing, but not so great as to suspect only Collection of Water in the Shorax, but the Child dies and when despected the Sericardium was swelled to such a bigness und so full of Water that we could see any of the Viscered of the Thorax. Itydrop's abdominis -The first Species of abominal Dropsies that offers it self is the Hydrops Peritonei, or a Collection of the

The first Species of attorninal Dropsies that offers it self is the Hydrops Peritonel, or a Collection of that the Duplicator of that membrane, or between is and the Transversalis muscle. For the authors generally agree to lodge this matter in the double Peritoneum, yet they give such a description

146 of it when they come to defect the dead Subject, as leaves us in an uncertainty May, no less man their the famous Nuch and the great anatomist Lettre the' both of them give along and full auount of this ducase, in its Rise, Grogrefs, Symptoms, & Concluis. rons, as you'll see en Vano. Wiel Cent Obs. 28. and the Memoires de la ciend eles Secences August 27th 1707 when they come to the Defection, tell us that the matter was contained in a large mem branous Bag, the upper part of which achered to the Musculus Transversalis, and theinternal was prefied in upon the Viscera of the absomen. Now, which soever of the membranes forms the Sacus, the very surprising to see such a Separation of pents that naturally ad here so firmly, and that such thin membranes should allow of such edis, tension as they must suffer in containing of the according to Much Lit. 95 of Water, and in that woman whom Jebu mechreen speaks of Cap. 49, where 125 Lit of Liquer were found in such a bag. The only way we can audust for the Separation of the

Membranes is, by supposing an obstruction in 187. one of these little Glands or Vefels, that are in great quantities about these membranes, so that they could not discharge the Liquers either into the laurity of the abornen, or for lubrialing the muscles; upon this Obstruction a Tumour would follow, which may break the little Jibres by which the Mombranes ac. here, and from these Tibrils or Vefsels the fluids would be pource out into the Vacuum. The same many happen in consequence of any small Ulcer or the bursting of such a Tumour as as first supposed, for when once there is a Separation of these membranes and a Rupture of the Vehels inade, the Liquors constantly dis charge themselves into that new laur; ty, and gradually thrust the membranes more from one another, and therefore moreuse the malady both ways. In proportion to this gradual distension, the Vefiels that run on the membranes are more explicat; ed, the flinds have an easier encep, consequently a larger auspoin of nutritive matter to every part of it . r.e. the saccus must become thuker in its sides.

148. This we observe to be true in all the parts ofour Tody, which are so openeually distended as here we have sapposed . -The Sympsoms by which we distinguish this fort of Dropsy from any other are these 1. It makes very slow progress in the beginning, in so much that often for some years it comes to no considerable height, and the Latient finds no other inconveniency from it, except the Weight and Bulk which is plain from the nature of its formation -25, After it has formed, the Tumour has thosame appearance, let the patients body be put into any posture, because there is no space for the Waler to move hither or thether since the lavity is formed entirely by Distension of the contained Liquids_ 3. The lavity of the abomen is not equally welled, but is only presuberant in one place -4. and every where else we counter: coup the flentis: cation of the Water is not fell. There three last Symp forms exactly distinguish it from the Hydropus ascites, where the Water rushes to the most depending part,

the whole abdomen is distended, and the fluctuation 149. is found all around _ 5the lower Extremities of these les bouring under a Sydrops Peritonei are either not at all, or not till the Patient turns very weak, subject to a Leuco: zahlegmatie. 6th If after Faracentesis or Sunction hath been per: James, a long Brobe hath been introduced by the land la of the Trocar, you may discover the whole extent of the Tumour, and at the same time upon missing the Inequalities of the Intestines, you are sure that you are not in the lavily of the absomer, and Lastly, after the Waters are evacuated by the Trown, if you inject any Liquer into the fanula, and it immedially returns, you may determine the Drops : sy to be that of which we now treat; for the ab. domen would contain a good quantity of Liquer be. for any of it would return by the pipe thro' which it was injected. The Prognosis here is to be mede after thege: neal methor, for if the swelling is small, and of

nitive dispolice in warm Water, or an immediate oul, inerary Decochion. If by the Rus or Samies that comes out at the Experture, there is reason to suspect some

ulcer

Ulcer. The Injections are made more detergent by 151 adding to the Vulnerary Decortion some Tinchure of mynh and aloce, or Elix Iropriet . and by good ban, dage the Expulsion of the matter is forwarded, the membranes are kept together, in order to Reumon, the flux of Liquids is prevented, and the ill Consequences attending the too suden removal of a considerable com yrefung force upon the Viscera are evited. The Dies and internal medicines are much the same as in the ademed, and truly except in the manner of aper. here the treatment agrees with that of the next Spe. ries of Abdominal Dropsies that comes under our lonsideration, ouz.

Hydrops ascites.

By this I mean a Collection of Hater within the lavity of the Abomen, the it may signify any watery Tumour, where the Swelling resembles ex Bottle. The Ascites is commonly divided into Hydrops Aperta and Clause, i.e. the Water is either flust up into a lista, Capsula, or Bay, within the Abomen, or is at liberty to more thro the whole Abomen. Tis the last sort I would compine

152 confine the Denomination of ascites to, since all the other has names from the pastuidar parts the water is contained in The lauses of this disease are when the Breaking of some Lymphestic Uepel, which is the common air rount given for tt, or the bursting of some watery Jun moun inclosed, or else it deponds on the antecedent lauses mentiones in an Bloemer, such as languid firelasion from the too great Lauly of the Solids, or the Thinnels of the Rueds, from actor great quan they of Liquid ingester, while the necepary exerctory Organis dout perform their part. In any of these lases the Liquer that is secerned in the Cavity of the Elbernen for lubricating the contained parts, and hindering their Concretion; this Liquer, I say, is second in greater quantitys than the other refiels that resurn it into the map of Blood can absort, and sure no wonder, since the lef elastic the vefiels are, so much the easier they are dilated

or forced open, but the more the first of these Vefiels an

Vilales, the more the last sort are compressed, & then when

when the absorbents have lost their Spring, they be, 153. come inactive, so that according to the Disproporte; ons of the Functions of these different Vefsels, the Drops sy will proceed more quickly or slowly - This I take to be by for the most general Method of Dropsie's forming, for these reasons -1. The Rushine of the Defels is afrimed without any demonstration from anatomical Defections of sucha thing ever happening. 2 the anteredent lauses are the most improbate to occasion such a Respective. Would you not believe I had advanced amost about peoposition in affirm: ing that because the Liquids are less solis and their Velocity diminished, 1. e. that their movement or Im. exetus upon the Solies was every way decreased, there? for the solids were every way liable to be broke by 3 Me are certain from the humidity observed in all the large lavities, that there is a constant Exertion in. to these Cavities, which Liquer must again be reasumed or aborded by some proper l'esseli, else no body couls enope

154 escape without a Dropsee of some sort or other; for a further proof of this last sort consider the common and tomical Experiments of injecting then Liquor into any facily, which in a few days is entirely exhausted we can one drop coming out at the Orefice by which it was injected.

When Lastly, we observe after death, especially if of a long Chronical langueshing disease, there is always a lorger quantity of Liquors found in these lavitys than is necessary for the Uses designed, or is to be found in live Difections . May, in Chronic diseases there selom fails a Collection of Water in call the favities; but in these lases the Liquids end to his are in much the same Circumstances as in the Causes assigned for Dropsies; therefore since the Course is the Same, the Effect will be while; or a Thysrops may be formed with; 2001 any rupture of the Lymphatus, or such like Ves. esels. This argument holds in all other Dropsies as in the Hydrops assisted of which we now heat -The Signs by which we discover this making are, the Patient's Constitution of body, the swelling of the

Abelomen, the most depending part being always 15%. the most protruded, nor is this confined to one part, but equal to all. By the pressure upon the Diaphragm the Satient must have a difficulty of breathing, espe: willy when he lies horizonfally, is somewhat relieved of the Symptoms by Setting up upon prefungthe Patient's Sides alternately, the fluctuating of the Water is heard, and by holsing the Salm of ones hand on the one side while the other hand strikes the other side, the fluctuation of the Water is fell -The Grognesis entirely depends upon the Patr. rent's Constitution, and the Continuance of the disease, that attends it; if the Hydrops was Simple 1. e. not attended with any other disease, and of no long Con. tinuance, and the fatient young on strong and will subject himself to prescriptions, there is hopes of his recovery. But of the Uscites is attended with an Seterus and Inthisis or heutre fever, if the Drop: sy is of long standing, and the Waters have begun to corrupt, as Thirst, Blooding at the Mose, the Stating on Dain with on the accomen well discover to us; if

158 the Patient is old and feeble, or will continue his old trade of typling and carousing, we are not to pro rmine a lune. The Indications here one, to remove the Cause of in disease, and to evacuate the Liquer aboung extra vasated. The first of these is properly the Shysician Business, and is performed by a noureshing streng, ening Diet of strong Broths, roasles ment with Spice ries, and good generous Liquors, as Claret, mum ge. The medicines ought to be of the Corroborative hind

Several Classes of these you have most distinctly in Boerhaave's M. M. Lap. Lui titulus, Cardia ca et Diata agroti Sect. 1095. If there is a Long to in the fluids, by attenuents & Debistruents that is to be removed; The Endianas here are of very

great use also, but the most powerful are the Sever hons of Guajae, Sapafras and the other wood, but above all Morcurial Ireparations presail ___ If the Liquids are too thin and in great quantity

such Excretions as evacuale the thinner juits of the Hero are to be increased, and therefore Emetichs Durgatives

Surgatives Divireties and lehearse Sylagogues are 159 necessary. Consult for these Decker's Exercit Grack or Boerhouse's Institutions.

To answer the Second Indiation of evacuating the war tery Liquer contained in the abromen, two methors are proposed, either by Exsicuation or Perforation. The Essication, or Drying up of the Moisture entirely depends upon this, that if we can prevent such a con: stant considerable discharge into the Hosomen th: mulate the Vefels, and promote any of the thinner lacretions, the extravasated Liquor will again be re. assumed into the l'épels, and be discharged by that lauretion. This is cevery od Thanomenon, and has puzzled all our Nationalists to account for it, the cer. tainly true. I have seen upon giving astrong Pur: gative, a prodigious quantity of Water evacuated per anum, and the hydropical Tumour of the eloso. men to subside, in proportion to the quantity of Liquor that was evacualed. A Homan of the hospital at Leyden laboured under an Hydrops Uscites, and her inferior extremities at the same time were producing

100 swelled; The Oxymel Scillis was given by Boerhand orders, le stimulate the Viscera, and create a nausea there, then to womit, which occasioned a considerable discharge by Stool, at the same the Water forced a passage thro' the Tequements of her Legs, and came away plentifully; Upon this her belly fell, and her Urine (which before was almost stopt) upon this di, 2 minishing the prefuse of its excretory organs, cam away in prodigious quantitys, to the entire draining of the abomen, as was clearly seen upon her body after death which was hastend by this too sudden discharge.

Agreat many Observations may be advanced from
Pluthors to conform the fact, but it happens so pequency, that it consists with the knowledge of every Ince, titioner. I shall only mention the famous British Thypocrates, Sydenham, in his Tract. de Hydrogre, where you have Examples of such Discharges by comiting purging, and wrine, that great man gives up the rational Account for it as above his Comprehension—and ready, for my own part, unless by the Shimulus of

of these medicines, the Viscera and muscles of the 161. absomen being forced with a more than ordinary con, traction, and that, after the same manner as the Peristaltie motion of the Intestines, do thereby con; strict the effluent Vefsels, while they force the Li: equies into the absorbents, whence they return to the heart, and one afterward discharged by the Granches of the Celiai and Mesenterie Usterys, in to the Stomach and Intestines, or by the Emulgents conveyed into the Ridneys, where these then liquid thefiels are secreted, unless, I say, this after this fashion brought about, I know not how the Thonomenon is to be solved. Tis indeed sufficient for Fractice to be certain from Ex; periments, that such a discharge may be made, and therefore if we could cure our Patient by Exscitation, which seems to be the only methor that Lysenham allows of, we must exhebit smart Jurgatives & Emetres frequently, or rather constantly, as far as the Satients strength will admit, for of there is ony con. sudcrable time betwiet the Evaluations, no good can be expected from them, since in the Interval as much

162 water is thrown into the abomen was by the mediene des changes. Diverties, of which the Lixwial Salts of Hearts are the most commended, are somewhat stower in their Exects, but large as safe as Emeties & purgature Juring the lure and sometime after the Patient must be hept to a strengthening Diet, no small Liquers, or but little quantities should be allowed him, and the Cardial corroborative medicines are all along to be continued. May in such Cases as I men times in the Irognosis to be dangerous, the Suden and violent Evacuation's are not to be attempted, be. recuse they rather husten the Satients Death, by ex. hausting the small remains of Mature's force, than que the least hopes of a face. all we can do to such

give the least hopes of a fure. All we can do to such is, to support with Diet and Cordials and affect ma; rture by thesines adapted to the other maladies they labour under. But I will not enter into a further

I recommend le your perusal the above mentioned

Treatise of Sydenham's de Hydrope.

The 2?

The 2? methor of evacuating the Hydropical Water 163. w, by Perforation. The antients performed this ope. rateon by cutting into the lavily of the absomen, with a Bistory or Lancet, and into the experture introduced a famula of Leas, by which they let out as much Water as they thought convenient to draw away at once, then either leaving the Cancela in the wound they stopp it eyp, or taking out the Canula they cramme the Orifice so full with addice as to hinder the Egress of the water; after some days they again openes the passage, and thus continues the lucewation from time to time till the absomen was entirely drained, making the Comula thater as the belly subsided, for fear of bruising the Viscera. This mether is now law aside, because the wound is larger than is just necessary for the design, the pupe is wit difficulty introduced, and the Surgeon is not master of the Evacuation, for the Water makes way either at the Locs of the Canula, or thro the dressing that is put on the Orifice. I have but mentioned the do way of Porfination. you may satisfy your solves more

164 more fully of it by reading alguageneent. Chirung. Shat the Evacuation of the water may be gradued some have proposed to thread a deton needle with tursted wool and lotton, which must be thicker at one end than the other The needle thus prepared, they thrust obliquely into the lavity, so that there is a good ristance betwint the Viscera and containing parts, there may be hazard of introducing the needle, and then by the frequent stillicidium and fretteng the Origice with the Thread, a Gangrene may be very readily brought on The Instrument most generally used now adays, and certainly the most convenient for the operation of the Jaracentesis, or Perforation of the absomen is the Trocar, which has get its name from the Stillet, while the extremity end in three diamond Squares, the point being the corneident angle of the three on the other end of the Stillet, the length of which ought to be four Inches more or lep, accord, ing to the Thickness of the Togaments, there is a handle

handle of Bony or Ivony. There is fixed to this Stillet a Siwer Canula, commonly as large as a Goose quill, which is exactly adapted towards the Squares where there must not be the loast inequal, lities or Roughness, at the other Extremity it is framed with broad Shoulders - m Seht would have one of these Shoulders made in form of a Spent or Canal, that the water might our in when the Adomen is so much emphed that the Contraction of the Muscles is not able to throw in any long! er into an Made or to project - The advantage of this Instrument consists in the queckness and easine fo performing with it, in the smallness of the Wound it makes, and then during and after the Operation we are perfectly sewer that not any one drop of water can escape without our knowledge and design The place where the Sunchure is made is determin,

The place where the Sunchere is made is determin, ed to be 4 or 5 Inches below, and as much to the side of the novel, reasoning in Engine sano et mediacri

164. mediocri, in a healthy middle statured man the reason of this stated Rule is, because in this place which is exactly ensout the middle between the Navel and Superior Ungle of the lota of is Ilij, The Sendons which are more difficult to preise and worse to reunite are shunned. The thuch flesh bellys ex the muscles are leheurie certed. There is no hazard of hurting the Epigastre Vopels, and here the Water is in such quantities as to hinder the point of the Instrument to here the Viscere, besides, as the lat. in the Operation is reclined to the side on which the puncture is made, this place becomes the most open ring, and consequently gives the fairest opportunity for evacuating the water; because of those lavantage the operation is always to be performed here, unles in this one Exception, vir of an Hydromy hales as as Hert of the ascites, which will be the next Dropsy the we will consider.

I know, Gentlemen, you will object how precurous the common rule of so many Inches below, and to the side of the navel of on hydropic person is, since according to the

to the different distensions of the abomen the June: have will be found to be further from or nearer to the Mavel, after the belly falls, and certainly it is a groß Errour in the Generality of Authors to far this as a Rule. But allowing that all the parts of the near equality distanded, as I believe will not be denged, then the middle point between the Ravel and the angle of the Costa Ofile Ily, will remain unmoveable, or change very little, in whatever the degree the telly 4 sweller, and therefore should be observed as by far The most certain place where the operation is to be performed; Since then this part is determined on, we must endewour to give it all the advantages we can in the Evawation, and Morefore instead of placing the Satient in a sitting posture, by which the water falls down into the lower parts, we rather lay him along the Bed, near the Side of it, reclined alette to that Free on which we design to operate with the Women as far over as conveniently we can, a Ser. vant with his hunds preping the other Side to make

166 the part lense, and to force the Water most to the where the junctine is to be made; the Jurgeon with the one hand afsishing the action, with the other at the determined place thrusts in the Trocal which ought to be out in Oil, to make it smooth & slypery in its passago, he thrusts, I say, a little obliquely upwards, to give the Water an easier lait, hell one by want of resistance at the point of the Instite ment, he judges that he has penetrated into the Ca vity, her then Traws out the Stillet and lets the Water run out into a lefiel designed for it. If the Cumula is stopt by the Viscera, or any concealed Sub. estance, so as to hinder the water from running out with a probe we push back the Imperiment, y clear the Pipe, till once we have taken as much Water as we design, in determining which authors are di voded The Unhients allagree we should never evan renate all the water at once but at several times be reause they observed, that when the water was quite Orained, the Sahint, the seeming at first mightly re cheved, yet in a little time fell into a syncope in fainting the which he with difficulty, yearsometimes never ze; 167. covered and in such as died after these lowerations they observed, that the lepels of the Visiona were full of blood, and ofthmes gangrened. The reason of these Thanomena, the generally ill accounted for is very plain When the pressure upon the Diag hagen by the Evacuation of the water is at perst removed, the Lungs have more liberty to play, the Saprent breather peely and is mightly relieved, but at the same time the descending aurha is peed from the prefuse upon it, therefore a much greater quantity of blood is orawn into it by the heart than before, the Superior branches of the austa consequently must have les flood sent thro them in proportion, since before there was but sering enough quantity to fell all the Orpels in the con; dition they were then in, Now, the quantity of Lequers severned within the Shull as in all Glan, Edular parts will be in proportion to the quantity and Velocity of the blood sent to it. But in Case both are diminished, the fluidum Meroorum will

168 be sent out in such small quantities as are not suy ficient for continuing the sensible action of the sever parts, which we call Fainting, or else the fourse of the nervous Lequer is entirely stopt, and this is, the Satient dees.

Now that great quantity of Rood that is driven into the descensing atorta easily makes its way into the Slice and mesenterie Arterys; but then these Vefels are so weak both from the Constitution of the Sahent, and the southing so leng in Water that when thus distanced begond their ordinary dimensions, they are not able to contract them selves and propell the consumed fluid; the Stagnation of these make the Ues; sels tunified with blood, and if it has begunto cor. nupt; a Gangrene hees begun in these parts_ Some Mederns aguen confiend that we should drawn the belly entirely at once for these reasons, That the langer the water is of evaluating, so much the more it re. lasces the Jone of the Fibres, and then after the air has anef to the water, as it has after Tapping, it soon corrupts and will quickly destroy the Viscera, which by

prepure upon the abomen, the difficulties started by the lintients will be obvieled, and 'tis certain from Reason and Practice, that they are on the right. But in my opinion they have not hit upon such an ex, each way of putting this in Execution, for they propose as we may learn from garanged to make the pres. sure with an afsistants heind during the operation, and afterwards to apply the Bandage, but at that rate the pressure is inequally made, and at the ly, pluation of the bandage is removed, and they can never be certain of straitning to ajust petch; whereas, if a large found belt, which would over all the abomen over, was made of such Shiff as would not stretch, and yet were pleable, such as Horse giths, and thes was lined with Shambo for softness & lasi, refs, it might by the help of Thongs and Butter be strait ned precisely as the pressure was tuken of by the Evacuation of the Water, for which the continui, : and of the Respiration as before would be an exact Gage, This might be done without mistaking in any

170 measure, the right place for taying for any diffi: 2 cully of corning at it, for the part is to be marked with Inh, before applying the Swath and the Bell is Finesh or a little piece of it as made to your or shut, or bur thes and Straps, which hole is adopted to the part marked. Besides, the Belt has this advantage, their at the part of the perforation the resistance is less them any where else, consequently the Water will be forced thither in greatest quantitys, for its speedies and more compleat Evacuation, and then formobore wes may be applied on or below the belt, as well as upon any other Bandage. These Corroboratives are much the same as the topical applications in the

When the Water is thus quite drained the fanula is taken out, and a lettle Edduce and Plaister is applied to the wound, which will soon dese by the Contraction of the parts, and the Window of the Belt is shut so as to make as great a compression there as any where else —

The Patient is to be treated as to Diet & med? the same

same way as in the removal of the lause which !!

The ment exect account of the Disease, the different ways of curiong it, the greatest number of Observati; one both of succeptful and unsucceptul lines with anatomical remarks, you will find in memoirs de l'acad. des Sciences 1701. 2. 3.

Hydromphalos.

This is athin watery Tumour of the Navel, the Water is either collected in the Tunica Cellulosa then tis known by its common Signs a heady delivered and is wired the same way as an cloema. Or else the disease is a consequence of the Hydrops ascites, when the ab; rdomen is very much distended, and all the parts ess, bremely released; wherever there is not a sufficient resistance the parts gradually que way; but about the travel there are muscles to resist, hence sooften the ascites, is dereimpances with this Timouth, which is cousely distinguished from the former Species by the Concerntant signs of an essules, by

172 the flux of Water found in it, by the year ing or even disappearing of the Swelling where it is prefe on, the Water being forced into the abdomen again This makes the Trognosis of the ascites so much the worse, as denoting a feelings of the abdomen and a Weakness of the parts, then unless speedily remedie upon any queck motion of the body or anystrain, is is in hajard of bursting; and then whatever way the water is evacuate, the rueden collapsing of the overstrekhed peuts, is moanger of preducing a Gerngreno.

In the lure of the asciles we must remove its long sequences, as was hinted at, when determining the place of Tapping. If the navel is very much dis; landed, and the Seguments then, then we make the Exertise there, for 'lis easiest done and full as safe and convenient as in the ordinary place, Between 50 and bo in thes town had for aconsiderable time laboured under an Agorops Escites, which thrust out the Navel and product an Hypromphalos, she would

not be persuaved of her friends to take adone 173. either of a Shysician or Surgeon, hell one morning wining herself hashly in bed, the Navel bursted and the Water rushed out in great quantities, which put her in such a fright that she was gled to send to Dr Smellum and me. By the time we came the whole bed was swimming, the Navel was entirely collegised and beginning to gangrene, as appeared by its black bolour colonofs, and ensensibility. The Dr ordered proper fordials and Diet; I applied antisen: the Jomentations and Casaplasms which receivered the Umbilious, while by the desicative method the waters were well discharged _ as soon as she receivered her health pretty well, and was as she thought, well recovered, she dismissed us and our orders, and fell to her old way of Lujing, we sometime after brought back the Dropsy and along with it a spitting of flood that soon dispatch;

Hydrops

174 Hydrops Clausa.

There are none of the Visceres of the Elbomen but what howe wast numbers if vast Glands for the See twoi of the Liquor particular to ceuch of them, & all of them howe particular Organs, for separating a there a muses or Lymph for the Subrustion of all the parts, or be converged to the map of blood by the Lymphahi one Phyliferous Uspels.

Now if the Emiparies of eny of these Glands has pen to be obstructed, while the lettle arteries are con. stantly pouring in their Liquor into its lavily it is greedually distended, its Couls become thicker, and frequently its wells to aprovigious buth as you may be convinced of, by looking into many Instances pm = duced by vander Wiel Cent 2 Obs. 28. From soveral authors of such hydropical Tumours in the Omentur. Stomach, Guts, Mesenlery, Ovaria, Tuba Fallogiana Spleen, Flidneys, Lever, Weries & To these I shall only and a few more. a Woman of this lown had all the Symptoms of being with thill, and her Belly gradually increased, wentlen or eleven months

months, but at length was convinced of her mistake 175 by the subsiding of her belly. Some months after the again imagines herself with Philo; When the home of her delivery come near, the Miderife apured her the head Twins in her Womb. In the eleventh month of her pretended going with thill she died . I was called to open her; in the absomen I found several pents of Water, and a glutinous tough mueilage and in the inferier part a large round Substance, appeared, ad hering firmly to the Seritoneum where it lines the internal Substance of the absorminal muscles, from which I separate it by difection, it filled up all the Selvis, and rose up near as high as the navel, adhering to all the surrounding parts, from which I cut it out as carefully as I could, then I Discovered the Merus in Status naturali, as also the Ovaruim and Tuba Falloquane on the right side the Tuba was cut off, and the Ovarium was taken away on the left side which made me suspect the Ju; mour which was deven Inches crop the aboner, Twice

176 seven and eight up and down, and four or five thick / to be the sweller Ovarium as dwas fully convince by the Difsection before Dr. Crawford & Dr. alston. 5. was covered with two membranes within, which was a great number of round vesicular bodies, some filled with Lymph, others with such glary substance as was found in the abdomen and others with Shuft resembling new (heese _ The other history was communicated to me by Dr. Drummond, who ex tracted avast number of Fydatides from the internal Substance of the Womb of a Lady in the Country -Now all these Agoropes clausa are difficult to discover, all that we have to judge them by is the Constitution of the Satient, Functio Lasa of the part, the swelling and sometimes rolling that is found on the absomen. Indeed of it become very large & elis. tend the abdomen, violently the fluctuation of the Water may be felt the Drognosis is not very favourable for the Patient may carry such a Tumour about with him yet his very difficult to remove, and upon any violence

used to it it is ready to burst, und occasion en les; ites of the worst kind to ory up, or sometimes these Agratides break off entirely from the parts to which they are attached, and float in the abomon, otherwise their thinner parts evaporate or are resorbed and the Tumour huns athurmatous or Steatomatous, which seldom or never yield. The Eure of them is entirely performed by internal med and these such as are hented at in the line of an Elscites, unless when the Tumour is very large and ad heres to the Deri: toneum, or when the meetter is looged within the la; : vity of the Uterus. In the first of these Exceptions, the matter may be let out by Perforation, as in the Hydrous Ten; tonei. In the second, the internal or Uteri is to be

be let out by Perforation, as in the Hydrops Pen; stonei. In the second, the internal Os Uteri is to be released with Formentections, Injections &c.—
11.13. The surgeon from time to time is to fine open the bs Tinew with his Jingers, Speculum Uteri, informent of the Water is unionfined, it will upon the bast open, ing give way. If the Hyd andes where to the internal surface

178. Surface of the Womb, the Surgeon must introduce his hand in order to bring them away Hydrocele Under this demomination we comprehend all was tery Tumours of or within the Scrotum, so that is may well be durided into threes pecies ____ 12 When the Teguments of the Scrotum we affecte which is known and wined the same way as an anas aria 22 Upon a violent Usides, the Sentoneum years as the rings of the Muscles to the propure of the Was les, and is purhes as far down as the Scrotum This we soon distinguish by the preceding asis Hes, by the beginning of the Tumoun at the rings of The muscles, by the lum of the water into the Elboomen, by the preping of the Swohum, or when The Satient is laid in an horizontal posture, and fluctuation easily distinguishes it from at zue Her, rnie _ The Grognosis is to be drawn from the nature of the Essites. The ording of its Source is

its effectual cure. Some indeed propose to make 179 a Seton in the Sorotum, by which they would dis charge all the water in the abomen, but then they run great risque of a Gangrene in the Scro: thim. Others pretend to confine the Wester in the abdomen by a higher rupline band applied on the rings of the muscles, but that won't do it, un lofs the abomen is empties and then indeed sucha band is necessary to prevent the falling down of the ornen; Hum or Intestines into the relaxed Sortoneum where the water is Engel -The 3. Sort of Hyporocele is, when the Water is contained between the Tunua Vaginalis and Ill. -buginew, where it may be collected in the same manner as in the other lavities. The Signs ofit are, a gradual Swelling of the Scrotum be. zginning below, and vising up, it feels soft, and smooth and of the Junea Vaginalis benest very much stretched it fluctuates, the weight of it always bears upon the depending part—
The

180. The body of the Testule is either not to be fell with the finger, or else it appears floating in some Liquer, by holomes a fandle upon one Sule of the Scrotum, while you view the Tumour on the other scole, it seems clear and bright. By these signs it appears easily distangues he from any other Swelling of the Scrotum. From the Enteroceles and Epiplocelo, by its beginning below and not at the Rings of the Muscles; from the Incumatocele by the weight that is always found in the depending part. From the Variousle or breocele, and Sarrocele, by its Smoothnep, soft rep, clearness and want of Pain. The Grognosis is the Same as in other Dropsies, for unless the water has begun to corrapt, or the Takent is of anill healt of Body, there is no hazard The lune consists in a right Dies, proper mess and lopical applications which are all much the some as in an Rocma, and lastly meinual

Operation, or Serforation, which is done either with a Trocar, on the mest depending part, while we ondeavour to heep up the Testite and streth the Scrohum. after thus drawing the Waler with proper medicines and applications we endeavour to prevent any further folletion, the hey are seloon effectual after the Operation, for in a short tomo the operation is as necessary ers ever. The reason of this is, that there is a list formed for the reception of the Water, and you are not, for fear of burshing the Testile, make as afficient com? sprefron to force the Sides of the Bug close, there. fore some have called this the yalliative luce -The 20. method of Operation or the Bradual lune is, To cut the Tumour with a Lancel, making a large einerture. When the Water is all evacuated, with crowned probe pointes Supars, the whole lis. tus is laid open, and by Digestives brought to Suppuration, then cured as a common wound -We must observe whatever method we take to

182. we this, the Scrotum is always to be suspended with a good Bandage. For Observations on this Discuse See Islaan lest 4. Obs. 65, 66, 67, 68.
Hydatides.

Wholer this hind of watery Tumours Hijdatides might be comprehended. They are roundish Tumours full of water, enclosed in one or two proper mem branes, occasioned by the distension of some folls: cles of a simple Gland; these very seldom aportees or outwardly, and then they require the same Treatment as other incisted Tumours, and there. fore I shall pass this malady over at present. Ramula.

Is a soft whitish Sumour full of Mueus, which sometimes appears under the Tongue, causing a great difficulty in Deglatition and Speaking. By the Greeks it is called Batgaxos, by the Lastins Chanula.

By the Description Ruthors give of it it plainly seems to arise from an obstruction of the inferior Salivary

Salwang Duets, which come to be sometimes pro. 183. Edigiously distensed, by the constant propulsion of the Scelwa from the Glands. This disease is not very dangerous, unless when the swelling has been so great as to bring on a Gangreno on the surrounding parts, as when by the long stay of the Matter in the Dut it has indurated, or the neighbouring Glands have turned Schorious or Cancerous, in which lases the Fatient runs a con esiderable risque; otherways, as I said before, the Patrent is in no great danger, the' it is always (of of any buth / ledious to are -The lure consists in opening apassage for the obstruited matter, in delerging and contracting the enlarged Duct. Several authors propose to attenuate the contained Liquer, and by stomulas: ing the containing parts, to force apassage by The Contraction, and therefore rub the Tumour with Sepper, Zingib. Pyrethrum, Salt, and such acred medicines, but except the Obstruction is very

184 slight, this will not unswer, and at the same time they many give rise to an Inflammation, therefore we had better follow the other method of opening the Tumour as near the natural aperture of the Salwary Duct as posseble with a Lancet, Bistory, or actual Cantory, which some prefer to simple Enting, because an orifice mude with the Caulory is not so heible to close up as when made by In. cision, and that before the Dut has recovered its former dimensions, or is in a condition to force out the Liquids thrown into it. Apoon as the Sait is prepared, the Liquer in the Tumour is expressed, the Dut is cleared of any glus 2 tinous Farts that may adhere to it, by deterging Injections, and by bandage and Corroboratives the Duct is assisted in propelling the Salwa; if the Duet return to its former small Diameter, there is less hazard of a relapse into the Ranula, but if The Duet cannot be brought to that, there is constant

hazond of the Tumour returning by the Salwa stagnation and thukning in its papage, therefore the Gatient

Patient in this last Case should every now & then 185 compress the Dust with his Finger, and heep the Orifice open by expressing the Liguer.

Flatuous Tumours.

Immedially after watery Tumours Authors ge, norally treat of Empysematous Tumours, Inflam, materies, Hethous Tumours, or morbid Swellings from Wind, and not without reason neither, since the lehe Constitutions are subject to both the Tumours in the same places and require near the same treatment.

In openeral any Tumour wherethe parts are dis; who and dir may be termed in in physeumata, just as adema signifies any Tumour from Sorum or Lymph. But then the Donomination of Flatuous Tumours is applied to a particular Species, they mean by it a white who Tumour, which does not pit when compressed, of struck this said to sound, sometimes this painful

186 other whiles not, for the most part attacking the articulations. The Course of these Swellings is said to be dir, the generation or production of which the several theely hour envenvoured to account for from their grener ral Hypothesis, as you may see in Doleus Enclos 2 ped. Lib. 5. lags. 11. For my own part I cunnot find in any Observator any instance to prove so much as the popisitely of an ain Jumour, ex. Ecept in Wounds of the Thorax, and once in the me moires de l'avad. des Juinces. Jan. 1704 where the real Emphysema appeared in a Hysropeial person first on the right theek, and descending affected the whole Trunk of the body, as was plain from the dearness, lightness, and sound of the Swelling before death, and after it with the first Cut of a Bistory upon the absomen a putro Halitus burst out and immediatly the whole Swelling disappeared. This extraordinary Case seems to have depended on the same that makes Animals swell after death, vir the Sutrefaction in themselve

themselves begun The common Occount, when authors come to give Examples, is wisely different from this lase, for their flatelent Tumours are confined to narrow bounds, they have no Sound, selsom so muchas a Crackling, when opened there is no flatus observ: ed, ner does the Tumour immediatly disappear. To coude these Objections they commonly tellus, that the Tumours are never pure, but have a mixture of Irtuito with the air. To me it would seem to differ from the Roema only in this that the matteris groper and thuker, and deeper loogs sed, even so that the bones are sometimes affeiled and the swelling is more confined of Consequences If the Tumour is small, superficial and without pain, there is little herzard in it, and if on the con. trary, it is large deep, and painful, it may prove difficult to cure, and perhaps bring Inflammation Suppuration and other troublesome dangerous Symps toms _ The mether of Cure is the same as in an Odema from a Lenter in the fluids vir. by

183. powerful internal, resolvent and deobstruent med and topical Applications must be of the same him in form of Tomentations, Eataplasms, Cintments or Plaisters, for in this lase there is no such risque in relaxing the Teguments, or obstruiting the pores as in an Wesemed. These medicines I had occasion to mentun in the circocele, and in the resolution of a I hlegmon. Emphysema. The true Emphy semewhich preguently happens on Wounds of the Therax vir those that penetrale the Cavity, I took particular notice of when for : merly on these Wounds . Tympanites. The pents of the 13 ody most subject to a swelling for the rarefaction of the air collected, is the about men, which may happen either from the Air when we swallow down, escaping out of our Stomach the Intestines, by destruction or separation of their Fibra from too owlen't Distension or Relaxation from an

Escites, or Corrosion, or Gangrene, or else this lier 189 is a consequence of the corruption of some of the in; ternal parts, or of Water in a Dropse, for Boyle has plainly proven by repealed Experiments that concepted Substances do as it were generale air. The reason of this Theenomenon may perhaps be by the intestine motion which is observable in con rupling Substances, the small parts of which they are composed are broke asunder, and the included air is left at liberty to act which it his not The Symptoms of the windy Disease (which is

The Symptoms of the windy Disease when is known commonly by the name of Tympanites from the resemblance the Absomen has when thus affect ed to a Drum si commonly with the ascites, with these dishing marks, the Patient feeling no such Weight on the depending part as in the Dropsie, the absomen is equally destended, nor do the different postures of the Dahent make any sen. when when is tronger when

In Irognosis is much more unfavourable than in the ascites, as is plain from the lauses assigned, we since the Visiera cannot upels so much, nor the Waters to be corrupted without immediate danger to the Patiene of the Sympanitis and ascites are much the same, and therefore I refer you to the last without which the other is selsom found.

I returnatocelle.

The Air included in the Abomen in a Sympani.

The Air included in the Abomen in a Tympani; tes, after the same manner as the Water in an asci ¿ les, forces the Sertoneum to give way at the have, or eings of the aboominal muscles, and there our sun considerable Swellings, which from the Contents and place where they are formed have got the name of Ineumatocele, that sometimes the last is no for esequence of a Tympaniles, but is proper to the Sero 2 tum. What has been said on Dropsies in these places & on the Tympanites in general may save us the trai Ale of entering into the particulars of these -Schirrus

Immediately after the Cloema Cluthors generally breat of a Schirrus, and very reasonable too, since the Tumours in those Vefels that convey a thinner fluid then Serum or Lymph are not observable, hel once the follieuli of the Glands, where smaller ves. : sels do evacuate themselves, are affected. A Schirrius is defined, a hard, immoveable, indo Lent, glandular Swelling. Its harones & Setuation in the commonly larger Glands distinguish it from the groper Odematous Swellings; the Immoveablines of it, i.e. its ashering to the neighbouring parts to as it does not as it were feel separate from them prevents its being confounded with those called In : wiles Tumours. The Indolency of a Schirres proc : ceeds from its having lettle or no Sensation which is sufficient to distinguish it from the inflammatory

The lause of it is plainly an Obstruction in the folls; couls of the Glands, or at the extremity of the Secretory artery

192 Alsterys, by which the groper part of the fluids is is frimly impacted while the thinner parts are con : ned off by the Lateral branches at the same time there is no owent Impetes of the Liquids los quickly to distand the Vefsels, so as either to burst them a create pour you may remember in the history of a Phleymon, I endeavoined to account how a Scherrhus might be the Consequence of an In Hummation in any Gland by ill management our by diminishing so Suddenly the quantity of blood by Evacuations, that its motion becomes langued, & at the same time by repellents constricting the vepels of the affected Glands, by which the groper Li quids are impailed and the thinner expresses, new even without any pre ceeding inflammation avios Elent and sudden Construction of the Vefsels in a flen Toular part may quie rise te a Schirrus, as nurses to their cost experience, upon exposing their Breasts too much, and frequently people have peris dear for laying them bare to the cold - A Weakness or In activity of the Vefels, either from an externul or internal

internal lause, by allowing a follection of matter 193 which may coagulate, may have the same effect, espe, willy if any other lause is adjoined, which may make a greater derivation than ordinary to that part, us in a Woman after theld bearing or giving Suck . -Upon stopping any useful Evacuation, such as the menstrua in Women or the Hamorrhaids in men, we Evaluation not being supplied by some other, the ob. structed matter if conveyed in any quantity to the Glands, where the Vepels are very small and vast Errumorbutions will there be deposited and give rise to this disease, especially of there is a Senter in the fluids at the same time Hence when Women become so oto as to be depreved of their menses, they are so subject to this diseuse as is confirmed by all Obser. vatoris. A Lenter or Luaness in the Good is very apr to produce this disease, hence the molan cholicatra, : bilious people are so subject to it, unless it is pre-: venled by the Files or such loucustions. Eating of such groß Vitaals as our solids are not able to assimilate to the rest of our Lights will cause

19h a Lentor, hence a Scherrus after; and very often a Disposition runs in the blood, as the commen saying is, or this hunded from father to Son, and common. ely observed in the Serrefula, or Cruels. -The Frognosis is taken from the continuence of the Tumour, if of long standing it will not ser en willy cure; from its bulk, the larger the worse; from the Constitution of the Patient, if he is law chymic, or it runs in the flood, nogreatmatters can be promises as to the cure; from the place the Tumour has seized, if any of the Visera, or any pun where the hunds and medicines cannot come at ear, Wily, or near large arteries or Veins, so much the worse, from the Symptoms that attend it, such as roughness, and inequality with punyent pain in the Tumour or near it, which are signs of a Concer; perhaps the attended with attrophed, In. Hammation or adema in the member below from the compression of the Vefsels which every beof dangerous Consequence. - In the Pure we must en) curour

indeavour lo correct the Cawether of the Patient 195. to remove the obstruction of the affected Gland and by all means to prevent the Scherrus degeneral, ing into afuncer. The first, is the Physician's business, To remove the Obstruction should be given such internal mer duines as are of the most ponetrating nature to resolve the obstructions, but at the same some gue not too great an Impetus to the Liquids, suchas the Durchons of the woods with a few roses of the aguil. all now and then -If the Sumour is of a short Continuance, without any sign of a lancer, and is not perfectly confirm. red, as we know by the remains of Softness and Sensibility it still feels, we try the Resolution by the application of Emollients and Resolvents, the former one never to be used by themselves, because they relace the Vepels too much and allow onew fux of Liquids to the part, which makes the schwius larger, or of tuning into a lancer, as we see in three Escamples in Hildan. Cent. 065.89.

196. If the Tumour does not yeels to Resolvents, which we had occasion abreway to mention, and is in a part where it may be safely and wholly out off, it is to be done. This Incision I shall be more particular of; when we come to a lancer _ If the age and Constitution of the Fatient forbid the expercation, or if the part in which it is, or its ad Therency to the neighbouring parts make it dange, 2 yours, and at the same time has the least appearant of a lancer, which we know by the Change of Colon by the Henelress and Inequality, Ithenog and Pain neither of the former Methods are to be used, we on ely endeavour to prevent its further Increase by Shunnong every thing that may writate the Jus mour, or give the least Rise to an Inflammation for which purpose all the Monnaturals are to be stone My managed, and very regularly observed; no emol, elient, supporative resolvent, or aired explication is to be allowed, the part is to be hept as soft and eased as popule, by covering it with seff Linnen, or reether Shambo Leather may beapplied surend with

Ing all. Dreepentioligus Empl. de Minio, or 197.

Bals. Universale by which means some people have
wed exgreat many years, without any other Inconver.

mency; than bang confined to a struct regimen.

Plilban. Cent. 3. Obs. 36. 37. Cent. b. Obs. 75 has

a great number of such lases.

fancer.

Ja Patient labouring under a Schirrus be of a very Il hubit of body, and not before corrected, or if he transgress in any of the Monnaturals, or by any blow or hurs, or any aired application the Schwings is is; ritated, it inflames about the sides, the Teguments of consequence begin to turn red, afterwards decline to Hack, hence first a Titllahen or Stitung, then the internal Vepels are much stretched, and hence a pun: gent poin, the internal veins are much comproper, hence the external entaneous Veins appear very tu; mified, and prequently the Tumour increases the unequally and hence it feels so uneven. This dege. nerated Schirrus is neimed Carcinoma or Cancer. It has got its name either from the resemblance the

198 knothy turged Cutaneous Veins has to Crabs Claws when they have from how of any thing, or from its commonly beginning externally, and running deep backwards as the frabs crawl. The lancer is dishinguished into Occult & hidden, mani Jest or open, and ulcercated. The difference is plainly this that the one is till contained within the Jollieuli of the Glands, and Teguments, whils the other is broke outwar rly. The Occult answers the description given, but to make up the ulerated lancer, must be added that a then Schor tuhers out at it, which Schon is so very sharps, that it corroses and destroys the parts which it touches, so that in a lettle time the Orifice enlarge " the leps of it swell, are retracted, send out a fetre for roswe Sanies, gacontant raching pain is felt -The only hue fure for this is Excision or Externation of the Fatient can bear it, if the Tumour is in such a place as will allow the Operation, of there is not reason to suspect some of the internal glandular Oescera to be affected with the same disease, for in this lase such an Operation would hasten the patient's death -

If he labours under a facochymia, that is previously to be correiled, or even without that Supposition there) is a necessity of preparing his Body after the common way in other operations to prevent fever & Inflammer, tion. The manner of Excession differs according to the parts that are affected and the largeness of the Tumour. If it is in such alax pendulous pent as we can easily introduce our Instruments, below the whole lancer, as for example in the type or (heeks, or Soint of the Tongue, with one atwo or three Rule of apair of Supars, we easily bring it away; any where else, where the Tumour is frall, we make a longitudinal Incision on the Tequenents, of that is not sufficient, one in form of a T will give more Liberty; If this will not do it, then the fricial is to be made; after any of these the Tumour is care! fully to be differted, and taken out entire, for if any part of it is left, there is almost a certainly of are. lapse - But if the Tumour is very large of deep, these methods would be inconvenient, and very ledious, and agreat deal of loose useless Teguments would be

200 left, therefore we are obliged to take it away Tegur. In ments and all.

After the Cancer is extripate, the Drepings are the same as in a Simple would with lop of Substance and auted with all haste, and not encourage along super punation, as many authors divise, for that way the Datient is thrown into a Consumption, or it brings on a new Cancer. If there happens to be any small of Schvisasis Tumours near the place, they are to be cut out by Enucleation.

In the lases excepted in the Operation, wir where the Satient's Constitution and Strength will not allow of it, as in observation and Strength will not allow of it, as in observation of the Tumour makes it impracticable, as immediatly upon very large Vefels or Newes, or reaching into any of the Pavitys, or where there is reason to suspect the grandular Viscera are affected, we must only palliate the disease, as was directed in the history of a Sihinus, and by anodyne med strupific the pain that is exceptive.

Some authers describe a small Cancerous Tubercle which

which they pretend differs from this we just now 201 trealed of Itosten appears at first like a small Pin, ple with great Sching, and being ruled it hums ex. tremely painful, tichers out a then Ichon, yreads, and if dealt roughly with, degenorates into the worst sort of excencer. To this they give the mine of Noli me langere, because it becomes still worse and worse, the more it is handled . The fure of it of: fers nothing from the former, nay, several Fracti; extiners use more freedom with it than the other, insomout that Wiseman used to burn it out with a red hot From. The lacusion however is much better. Struma, Scrophula, Excricles or King's Evil — These are commonly treated of in different Chapters. from the Schirrers, but in my opinion they may be brought under the same lass, nay, they differ so lettle from one another, that this no casce matter to distinguish them I know indeed agreat many mo. dens have crammed in agreat many viscuses under the Title Struma, such as the Incisted Tumours

202 The Phagedenie Meers, Earious Bones, and Spina Ventosa, but if we keep to the description of those that first that imposed the name, and what they were pleased to make of this Tumour we will plainly see how near it is related to en Schirrus. Hypour de Gland. exprestly numbers Serofula or Strume among the diseases of the Gleenes . Celsus Lib. 5. Cap. 28 J. J. defines Struma a Tumour in which a Sub. stance like blood and Ous use up like Glands -By Struma then we understand a Schirrus which more generally happens in the conglobated that conglo monate Gland; it feels smoother and is more move. Table than a true Schirrus; the body of the Sumour may be brought to Suppuration, whereas the other never suppurates, the Folliele is more apparent than in the Tumour which has been already described as a Scherrus. This is very pequently reasoned by some external (ause or particular disposition of some one part and is mostly in people come to ease, whereas the Struma is constantly attended with a mala Temperies, is often preceeded by a remarkable desorder

of some of the Viscera, and secom attacks any 203. but young people and Children. This disease de: nends entirely upon a factochymia, in which the not unreasonable to think that the ill concocked next of the map of our Liquids should be obstruct: ed in its perpage thro' the Glands, where there is such a predigious number and lercumvolution of vefsels without any considerable muscular motion to forward the forme of the Lequis. The Laxily of the vefiels and the consequent want of Soloitly in the lybebules of the Third of there Subjects that are hable to this disease, may fufficiently, as I thenk, account for these Swellings, their Lowseness and inclination to supporte beyond Schiere in people come to age and of confirmed strong ves:

The Prognes is here is not very favourable, for at best the live is a ledious difficult work, and if it is hereditary on attended with orlong standing lawethes if any number of these glandules Levellings appear, all

2011. all our medicines are baffled, and sure no worder, when there seems a necessity as it were of changing the whole frame of the Satient's body; when the parts affected and so remote that there is the great eff difficulty of accept for the medicines, when a sort of Cistus defends them from external applications, if we shall happen to come at it by Suppurar hom, that lister must be estroyed.

The line depends mostly upon internal med s. that correct the Satients Constitution; the most of fractions I know are the Woods, mercury, & sul; yhur, with a good easy digested Diet ____

The Chirargical Treatment is much the same as of a Schiricus, only that we may use some more free. For with the Strumer as not being so liable to lian lancerous. By the strongest Resolvents we first endeavour to orscufs them, if those fail we cut them out intirely, as was directed in the luncer. If they begin to suppossale, which we know by a late prescheding Inflammation of their softning by suppuratives we

we endeavour to encourage the Suppuration of 203
the whole Tumour, then open them as a common ath,

cefs, and by Escarohis and Digestives separate the

Followli, taking care however not to fret them too

violently, lest they degenerate into a facunoma &

Lastly they are filled up and inatrized as an thund

by Systaxiosis.

You see, Gentlemen, I have not so much as min. twoned any of the obs Women's specific applications, ner given the Kings of France or England the whole burden of the line. For the truth of the Matter is I know, lettle or nothing to my own superience or Convencement of the Officacies of the one's medicines or the other's Touch. Yet I am very far from de. tracking any thing from the voracity of agreat many good people and honest Writers, who have pleaged their faith to mountain the powerful ope. ration of the Hing's Jingers, Bleping, or Gots. Furigous Excrescences.

There are often fungous Excrescences that syrroll out in

206 in several parts of the bory, which plainly am swer to our Definition of Tumours, but are not easily reducible to any of the Common Genera.

That which they nearest approach to seems to be the Schurchus, for thus they seem to agree with it, that glandular parts are most subject to them, that they are mostly at forst insensible, when into totale they are apply to become Cancerous, but then they want the hardness and firm compact strue: ture and including follieuli of a Schirchus.

The first of these I shall mention is the

Which is a Cancerous like Excrescence, within the Mose, with a narrow Preof, commonly attacked to some of the Bones in the superior part of the Mose, stretching itself broader either down into the nustally or backwards into the Fauces. It impedes the Pater cents breathing, sometimes by its bulk swells the Mose, and if it desides backwards, it makes the Deglechtion difficult; year sometimes there is the greatest

greatest hazard of the Fatient being sufficialed by 20%. its falling down upon the Glottis, as in the Case mentioned by Julpius Lib. 1. Cap. 26. They are dis , linguished by the Colour, for some are whitish, and of apale red, others of an intense red, others livid and lead coloured, and then the Bulk, Frogress & Consistency, whether hard or soft, are remarked. The Rise of this diseuse sams to be un Obstruken of the Glands and Vepels of the membrane that lines the internal Substance of the Nose, and aconsequent protrusion of the membrane from the congestion of the Liquids and Elongation of the Vefsels at the obstruited point, as appears from the resemblance of the membrance of the Nove and that of the Jumour, from the glandular texture of the Excrescence and great number of vepels observed in it, hence the different Colours of it are easily accounted for; the larger the Vefrelo are, the reader the Clour is ob, served, and if the flood bagins to stagnate or cor; rupt, the Lividness appears The

208. The discovering the Polypus by the lege after the description given is so plain that no Rules need to be law down for the discovering of it. The Frognesis, besides the general observation of the Satient's Constitution, age be, is taken from the preceding Deagnosis. If the Swelling is small w not high coloured, without pain, and stretched for : wards, there is not so much danger, nor is it so hard to cure, as if it were large, poinful, and falling backwards; Such as are of a livid colour and very painful are not to be meddles with, for they are beginning to turn cancerous, & firitates, foon will become compleatily so -The only relief to the Satient & live of the Sweare is, by removing the extraneous body, which is done either by Excision, Legature, Exession or Wulsion . In all of them the Satient's body should be first prepared by proper toaccustions, for fear of any Inflammation which the pour we are ofliged le put the Patient to might ouasion The

The lassion or Eating away of the Dolypus is 209 performed by quarding the internal surface of the nose with Plaisters flut in betwiet it and the Ex crescence while with the Istential Cautery, Butyr. antim. or some such violent laustret, we destroy apart of the Swelling . From home to home this ope. ration is to be renewed, till we have consumed as much as we can come at, observine, every time apoon as the Caustie is taken off, to wash away the remainder of it that may still be ashering, with warm water, lest it afterwards attach the

Some authors propose by the help of a pair of For.

caps, to introduce a thread formed into a none or

running knot, to the very wort of the Polypus, then

pulling the two ends of the thread, this straitens

the Excrescence so much in the nome, that it more

lifes and falls away, but winless these Gentlemen

thrust one end of the thread down to the James, &

there held it, I cannot imagine how they ever though

be

210 be able to straiten the Noose by pulling both the ends into the nostrils. The Excision may be one either with or without a Ligature. Celsus. Lib. 7. Cap. 10. proposes to exettrpale the Tolypus, by sliding in a small cut. I ling hnife, and with that to cut it off by the very Roots, shunning the Bones and Cartilages as much as possible, which are not easily avoided Besides, there is hazard of the Satient losing his life by the Hamorrhage that may follow and is very difficult to stop, because in this place we can neither use Compression nor Lugature, as Escarohe medicines may be of the very wors Honsequence the parts being so very sensible, and the bones being so little covered, very spungy and thin . However, we are sometimes obliged to risque this vir When the Solypus comes down upon the Velum your vlum Fa; late, so that the Satient wony nument is like to be suf. focates, and at the same time the Excres come as heres to firmly to the neighbouring bones, as we learn

from Garanges Cap. 38. was practised with Suc. 211. up by mr Setit.

The method of Excision by Ligature is proper to m. Aman He to prevent Homorhage chuses to destroy the Jolypus after this mannon, with a pour of braad pointed roundish Foreges he takes how of the Tumour, and gently pulling to him draws as much of it without the Nortrels as he can, then his that part and legins again to stretch it further, les he has très as much as he can venture to draw out without leaving, then with a pair of Supars snys of all below the upperment Ligature and by the Suppuration and Escarotus consumes what re.

The Evulsion is commonly thus performed. apair of roundish Forceps is introduced into the noze as far as the operator can, to come neares the not of the Jolypus, which he takes hold of, to make the Grip the firmer a ring is mede to slive upon the Forceps and to stracton them; when a sure hold is got of the

212. Excrescence, the operator twists and draws till he pulls away the Polypus. The Hamorrhuge that at : tends this way of operation and the violence which must be used to the parts to which the Jolypus is attached, makes thes way of eperating dingerou. the in these lases where the Polypus descends in to the Fauces, 'his the only way we can pretend to extrepate it, and has been done sweepfully Witness the above mentioned Observation of Tulpius Libs. Cap 20 and in the momoires de l'and des Sciences 1704. there is just such another -Sometimes the Jolypus preper down the Velum pen. Idulum Palate without oppearing behind it. I re member one lase Boorhaave lots us, where the whole mouth was filled with such an Excrescence, When it happens, that membrane of the Palate muss first be cut to come at the Jolypus, and this the Earrescence is cut out or pulled away, as mr Jeht Oud in the Operation quotes from Garang. Which source of these ways the Jolypus is removed, there always

always remains some root of it, or the membrane 213 is so much relaxed, that it is easily again protied. ed, and gives rise to a new Jolypus, wherefre the Suppuration is to be encouraged, and afterwards by astringents, or very gentle Escarohis, the ves. sels are to be strengthened and contrailed Epulis & Parulis. The Gums are subject to such another Excrescence which is called Epillis, but this commonly proceeds from a Scorbution of Jochy Constitution, which must be corrected in order to the Rure, and the Tumour must be siminished by astringents & sasinants -

be corrected in order to the Rure, and the Tumour must be diminished by Astronogents & Exsuiants—
The Farulis is escaitly when to this, &is another such Lungous Swelling of the Membranes of the Da. Sate, which often hazards a faries of the Bones—
The small Jungous Excrescence that appears on the lifens in men, & at the Entry of the lagina in Women which are so comments, known by the name of Shankors, I shall not trouble you with a octail of as being a symp, tom of the maledy Veneres, which I don't dissign to touch at pust now—

Sarcocele

Sarcocele

The Testile upon any bruse, hurt, or Obstruction to its Oefels, is very lieible to a Hypersanceris, or over growing of the flesh, as the Anhints called in That is, either a Surroy fungous sort of flesh sprouts from the Testile, or its membranes. This affected with this obstruction to that it becomes Scherious.

Either of these Tumours withon the Scrotum is rechonce among the Ruptures, and how got the non of Sarvocele. This disease is distinguished from the other false Hernice by the hardness, compact nep and weight from the true Hernice by its beginning below and rising upwards.

The Causes of it are plainly the same as of a Schiring and Jolypus.

The Prognois is buken from the largene fo, long standing, and concomitual Symptoms of the Tumour logether with the Patient's Constitution — 2. G. Tis plain that a small recent Fumour of the Feshelo without

without pain, or any other parts affected, in a young otherwise healthy jurion, may give greater hopes of a lure than if the Swelling was monstrously by and of a great many years growth, attended with racking pain and varieous Distension of the Veins in and crazy Constitution. However I must lett you, at lest he troublesome to cure, busine of the great difficulty both external and internal medicines have to operate on the Festile. The lure of it is much the same as in a Variocele on by the strongest resolvent and discutant med? Pulo Rad . Ononidis on Rest: harrow is esteemed by some agrand specific when taken internally, par. heilarly by Scultetus in his annament Chirung. Obs. 74. affirmed that he had wred a great many labouring under the Junia Cognosa with this fow, rder and commonly Gummatous Resolvent Places ter, He gives 31 of this powder to adose to be taken in the morning ex haustu vini librynthites Several Buthors propose to hinder the flux of the

216. Matter to the Testile, if not to drawn it entirely. by means of a Seton put pretty deep into the brotum, which might be tree and hept numming for some time, unless that the pour that would follow it would to more harm than the rest would do good, oblige us to remove it. If the Tumours turn Canenous, as we may know by the superveoning Signs of Inflammation, by the raching Jain the Satient feels, by the roughness and inequality of the Swelling, there is no other lune for the byt Castration, or laciscon of the Testite for I cannot think but it is awang dungerous Tractice which some proposeryon the fungous Exercise of the Festile turning by, to open the Scrotum and cut off as much as they see convenient from the Tumour, and afterwards to destroy therest by Suppuration, for the parts that are contremely senseble cumnet but be very much writated, whence the very worst lonsequences, as Fever and its Concomitants Inflammation or Cancer

may be esuperted. -I remember to have seen a Satisfin the Hotel Drew, who by the Separation of the Scrotum froma Gangreno had his Testile law bare, but the pein was exceptive, & in a lettle hime helle him . -But to return to our Operation, there is, besides the Weakness and Jangerous Symptoms that the Patient perhaps lubours under, one loughon against performing it, even when the Testile is Cancerous, and that is where the Spermate Vepels are affected with varies further up than the Rings of the muscles, which by the Touch may be disco: wored, for in this face the leftels above the Ligar ture which we are obliged to make, are for much dilates, that their sides will not collapse so soon. as the Ligature, will oron away by the mortifica: rtion of the tree parts, consequently the Vepels will that is, he will blood to death, without our knowledge or our being in a consitren to help him Jungous.

Jungous Excrescences of 218. the Anus. The anus is very subject to Jungous Excrescen: rees, which according to their different Elppearances have got different names bestowed on them, That is, If they grows out fleshy, with a broad base, they are caded Condylomata, of with a small long neck, they are stile Ficus; if from any thing resembling a lock's comb they are called frister, if have and uneven, they are called Thymi -Their Rese and fause is much the same is of other such Excrescences; The Thymi are the worst sort, as very ready to turn fancerous, and ashering fromly and deep le the parts about. The others, unless ini taled, are harmles enough but troublesome, him. dering the Faces alvince to be expelled, the further up the cinus somuch the worse. By astringents we endeavour to make them con, strut, if this method does not siecee, we calingate them after the same manner as was proposed in the

Hamorrhoids, from which there differ little in the 219.

Cure, except where they are attended with the Dose
or Scurry, which must be cured by a Physician,

before the surgeon can pretend to do any great

Service:—

Several Jungous Tumours are found in the star parts of the Body which are of much the same necture with several of these described, and have no particular names assigned them; I have seen of them pretty near to the Trius; others of a more watery Testure, but their lause or lure differ lit. the from some one or other of these mentioned, I shall not insist of them.

The last species of Tumours which I mentioned to discourse upon was the Incisted kind, or such as are contouned in a proper listed or bag, we seems to be nothing else but the Follicialus of some small Symphatic bland obstruited and distended by the Collection of Matter soparated into

222 into it, while the excretory Duet is stopper is so small, as not to allow a papage for such Liquors as the Sourcetory vepols have desposited, as coppears from comparing the Destructions of one of these Lymphatic Glands with one of the Eista These commonly mentioned with district names bestowed on them are, the Melliceris, Ulheromer, Steatomer, Talpa, Gun. glien, Lupia, and Hydatides. They are all of them easily distinguished from other Tumours by their gradual increase, without any remarkable pour or discolouring of the parts They generally rise in a Globular form, unless the surrounding parts hinder or alter They are generally of themselves unrounts & without any great danger, but cometimes by long propion of the neighbouring parts may bring on an Inflammation, Gangrene, Ulcers, Ultro, cphea, Immobility, Roematous Swellings & or if their contained matter either by its derimony or quantity

quantity break the containing Tolliculus, a Tedious Ulcer, such as that of a Struma may fol. low, or of roughly breated they may become fancerous The first three mentioned or Mellicenis, athero, ma and Sleatome differ only from one another, in consistency of the contained matter, whereof the melliceris is thinnest, and has got its name from some resemblances that to honey, that of thell : Moroma is thicker and is of a Pultaceous Con: sistence. Steatoma is like congected Fat, or New Cheese; Before these Tumours are opened, unless by their different degrees of Softness, we have no way to distinguish them -Talpa is the same as the former, only 'tis always in the head, and by the Compactness of the Shin there the flatterie often by its Compression arese uliers, and is the occasion of carious bones. -Ganglion and Lupia are confined to the Tendons, above which they are felt, the Ganglin to those if

the hands and feel; the Lupia is applicable to all

the other incisted Tumours upon therest of the body. The agreat meing Surgeons understand by Lupus or Lupia a funcer or Jungous laures! cence. You may scerit taken in the first sense by Jarey Lib 7. Cap. 20. and Munich Leb 1. Capit and in the last sense by Doleus Encyclop Mirung Lib. 1. Cap. 16 . and Lib. 5. Cap. 8. The Hydatides are watery Tumours, of which al. ready, when on the Hydrops Plus a. The general Eures Whem when little is, byre. esolvent applications and longeression; if large they must be cut away, as was directed in the Scherrus. Therefore theold way of dressing with some hard substance, or giving them astrong flow to burst the fisher and then dishinguish the extravasated matter is now out of doors as en edangering an Inflammation, Gangrenz or Remarks

Remarks upon Mr. Monro's Lourse of Chirurgical

Operations—

of Sulures.

He differs nothing in them from my Garange of, only he thinks, that in the Interrupter Suture the Threads should be different at every Statch, and not as m. Setit would have it, that it be all one continued Thread, because that the Talient when he hears the Clep of the Sufsats, thinks the Operation at an end, and his fright as well as hes pain increases when he feels himself a second or there time priches. But he thinks that the pour the Satient feels indrawing along thread thro' the wound is more than sufficient to balance This imaginary evil of the Patient, therefore they should be different threads

Ilernia.
Bandages that are ordinarily applied for the other Hernias

224 Hernias will not do in the Exemphalos because of the motion of the Belly in Respiration. For if we should apply our Bandcege in Inspiration, tho' we applied it very hight, yet in the Esquira when the Belly Yells, the Bundage would be slack, and so the Intestine or Epiploon get out, and in Inspiration it would be prefied by the Bandage, and so an Inflammation and Gangrene might happen in it; therefore if we can get any substance that is lastic, that will yield to the prepurery the Belly in In. Espiration, and in Expiration will recover itself, so as to prefs upon the Hernia, it will answer the Intention; for if we should apply any other bandage in Expiration and if it was hight, In? spiration would be very much hendred by it Such an elastic Substance is Spunge which is thus prepared for it. It is made up in a little Ball, and then fastend to around price of Pastex 2 board, with apiece of Linnen, then 'tis putente

Cavity, for here is a small lavity after the Rup, 225 lune is reduced, and this hept on with a bandage. or the swandling belt which is just about Chilbren, for no these that are most commonly broubled with the desease But of the Fatient is an Woult, whose Inspiration and Expiration are larger, then this perhaps will not be sufficient -I have invented a Machine for this made up of two Iron plates, fastened together by four spiral Springs, the plates are hept about the distance of two Inches from one another, but upon any pressure the springs will yet, and they can be brought neurer one another, but that pressing Cause being removed, the Springs will recover themselves, and the Rules be at the distance they had before; to the undermost of these plates is fashioned a Cushion, like that which they, me he Rupture Bands of, on the outer place are four Jugs which are the ends of the Screws, to which straps muy be fastned, two of which may

226 crops and go over the Shoulder, and the other two crops and go between the Thighs . But if the Patient makes not much motion, one list cular Band may heep is well enough -Kastration. After cutting the Tequments, he cether separates the Testule contained in the Tuncia Coginalis and Muscle from aster with his Jinger from the Serotum, which is easily done, or difects it with a strait Bistory. He makes the Ligature of the Spermatu Vefels included in the Tunualtagi: enalis, and does not despect them from it, and when the Spermake Vehels are sove swollen, he looks for them, puts a threaded Needle thro under them, to -gether with the Tunier Vaginalis, and so makes We Turn first about one Suche and then about the other as in Gareingest, and the Testileis extirpede with a pair of Supars. Phymosis & Paraphymosis These Operations are the same as in Garangest

they may be performed either with a pair of Sus? 227. sars, or Bistory lacher.

Lithotomy

Litholomy by the lower operation is the samo with Garangeot . The higher Operation is per: formed by culting the Tegiments with a strait Bistory fastend with a Tage. The bladder is first injected with warm Water, by which it is Tell under the muscles and Tequiments, and continuing the Incision between the Musculi Recti When the Bleedoor is Earl bare with a straight Bistory according to mefors Douglas and megill, or according to mr these toon with a crooked they open from the Fundus towards the Or Subis. When the agreeture is not large enough to let out the stone, then the Jungers are introduced into the Bladder and cuts upon them which is better than a Directory. In migits enlarges with crooked Supars. The Stone is ex: tracted with the Fingers, which is better than

The Forceps. The Worne is drefred the first day with dry drepings and the other days with Dis This is by far the best way of operating, puts The Patient to less pain, and the wound is ensier the cured, tho! it heis semetimes in this place ill succeeded; but that was not owing to the me. thed of operating but to the form of the Stone. In one the stone was very large and had a notch, in the middle and a Bull at each end. the Mitch received the Of Subis, so that it was so fisced that the ant of man wild not extract it so that when the Patient was dead, the Or Suc his behoved to be sawn asunder before the Stone would be got out; cond if the Operation had been by the Lower way, it would have been the same Fistula in Ano. He agrees with Garangeot in the Operation?
Viole Treatise of Tumours.

Extripaking

Extirpating of Cancerous Sum ours

If the Tumour be large and furnly adhering to The parts below so that it cannot be moved, orif the Glanes of the other parts of the body be lunned Schirrous, for Escample, if the Breast be affected, and the Glands under the Urmpit be swelled, erif we suffect that there are Schim in the Viscera, or the Tumour be large or near upon any large Defsel or Existency Merve, so that it cunnet be en. tirpaled without destroying them, in this lase we are to let it alone, but if the Desenie be local, we may perform the Operation, If the Tumour be small by enucleating as they call it If the hease beaffeiled und wholly buinted with the disease, then we are to extigate it wholly -We have how of the Sumoun with one hand, full it up, I then make a Semicircular Incision round the Sumour, but no further their the Tequements, then get in our fingers and pull the Turnour from the neigh. fouring parts disserting it at the same time will,

230 the Bistory to pee's from the parts. When the Tu. mour is wholly dipected you cut of the Tumour all at once from the musile below. If the Tumour be loose, then we cut it off at one from the Muscle below without Differtien _ If there be any Arlerys they must be stitched, but if there be so many that the Jurgeon cannot get them well stitched, then I would apply the actual lautery. I would never apply the Vilrid button where I would get the other conveniently. done, for the hot Iron stops the blood at once it goes no further than we design it should; the pain is but momentary enduring but for a short time, whereas the Vitrol Button is a while in depolving, and if the blood come out impetuously, it may wash it away from the Wound, and so the Blood would not be stort, and then when it mells, it spreads very fur, and makes an Eschar very large, and eats very deep, and the Sain endures very long, so that the actual lautery is by far preserable After

After the Operation, we do not escite along 231 suppuration, as it done by some, for by this the matter is imbibed into the maps of Blood. It other swellings of the same nature occasioned. The Drefings are the same as in Garangeot, the Bandage is the Naphin and Scapular, or the Star bundage.

If the Tumow cut out be small cone by encule. ating, and there be no large lavity, then we bring the Lips of the Wound together and stitch them. If the lavity be large then we want the Sequiments by cutting them off of too large, and leay them down as near as populte. — Empirement.

The Incision is made according to the length of the body crops the Ribs. When the muscles above the Ribs are cut, then the internal muscles are cut exactly bet ween the Ribs according to the length of the Ribs. If the Lungs achere very fast, we must endeen our to reparale them, but if we cannot we must

232 must not use violence. Some in drepning put en a Tent into the would with a threw at it we is very necessary; for sometimes it has bun drawn into the lavily Tulpius in his Observations gwes an Instance of one that a Tent fell into the lavely of the Thorax, and six months after he coughed it up. Others have a Silver Canula which is flat so that it may not hunt the Ribs, and crowned that it may not touch the Lungs, is has a nech and Straps which go about the body they cover it with a prece of Linnen or springe so that any thing many be hinded from falling into the lavity of the Thoras, and at the same home an Exit may be allowed to the Matter. But these al the Tent are not convenient, sometimes they have occasioned Convulsions by the pain . Im Setit puls ento the wound a prece of Linner pretty broad at the one end, and has a tail at the other, this he puts into the aruno, apply oney the Maddle of the broad pent on it, and thrush it in a little; allowing

brown the Tail to hang out, and the edges of the 233 brown part about the leps of the Wound. For the Drefsings see Garangers.

When all the Pus is evacuated we must dose up the Wound afrown as possible. If there be small theers in the lewily of the Thorax, we must let the Orifice remain open till they be healed.

Bronchotomy.

He performs is the same way as in Garangeot, making Incision in the Teguments with a straight-Bistory, either with the edge next the Frachewer the buck towards it, by thrusting thro' the Jegus ments, and cultong upwards, looks for the Intershie of the Cartifage, and makes the Incision with a Lancet rolled with a Fillet near to the point, without differing the muscles. He thinks it may be performed with a Trocar, which ought to be very sharp in the point and Edges, and the Canula and is must be much shorter than for the Aaracentesis. This way is preferable because much

shorter, which is very much desired, because the Satient wants mightely to be relieved and behowise not so painful to the Takent. But there is one Inconveniency viz. the Traches Arteria not being strong enough to resist the prefuse, will yield, so that its rides will almost louch one another, so may be in herzard of being thrust thro' and like 2 wise wound the Osophagus, and so the meat may fall into its favily; but indeed this cannot well happen, because the Satient cannot get swallow But to prevent thes, with our Thumb & fore finger of the left hand we grefs the sides of the Frachen by which the foregrent will be more probuberant, and so we may thrust in the Instrument without committeney that great fault.

Jontanels are just in the Neck, and indeed of times they do great Service in many diseases; how this comes about this difficult to explain, if it be not by diminishing the quantity of our Liquids, or perhaps a James or Dus is sent to these vefsels where the Jontanel is made, like to that which is own stoned

oceasioned by the making of that first. There are 235. three Jors them 1. Their made by a blitering plaister which beaks the Scarf Shin, which when leke to grow in again They put on some Ung? Epispast, by which a Suppur. ration is still continued; they call commonly a perpetual Isue. They make them sometimes be. tween the Shoulders or the last berlebro of the nech, sometimes at the nape of the Nech. -2. is made by Coustre; the method is common. by known . We must let it by on according to the Strength of the lauster and thuknop of the Shin If it be in the head where the Shin is hard, we must let it by longer than where the Skin is softer as the eum. Some Coustie will work in \$ for hours some & some one, some two hours When the Caushe hers wrought apply some Basi; : luon or any suppurating bintment when the Es: round body that will swell when imbibed by the Humours, such as Rad. Hermodal. Iris or Spunge

236 Jent. When it does not run enough or spungy flesh errows up, sprinkle on some Ellumen usk or Precipit. Bubr. This is the common way of put, hing them in, but the Better way is with a Lamet which is by punishing up the Shin and cause the Servant do the same, cut it thro' then put in wo Dear this is done at once then the next day it will be suppurating whomas the other way is 3 or 4 days before the Eschar separates These are called commonly I fours.

The 3° and last sort is the Seton There are two ways of putting it in They commonly put them acros the Neck, but I think it would do better that they were according to the length, because more favourable for the running of the matter. The 1st way is by prinching up the Shin and cause a Servant do the Same, either crops the neck or according to the Length of it, as you do. sign to enable it. Then with a large Imposthume Lancet you pierce it throw letting the aperture be about three Inches distant, then without moving your

your hand in the least, you put through the a. 237. persures a Probe with a Silk ford in the Eye ofil The lord ought to be near as large as one's lettle Jinger. If you should move your hand before you introduce the Probe the Expertures would not answer so you would have a difficulty ingelling it thre! The other way is by a Selon Reed to which is as broad as a Lancet, but longer and erocked. It has a large lye into which the lord is put, the Shen is thrust thro' with this, and the Eord brought along with it. This is the best way . The lord is rubbed with some suppurating ornsmens, both to make it go thro the better, and to cause it run. Il Heaget of the same bintment is applied on the orifaes, when you would change it, you rub the ford with the Ointment their is near to the orifue, & pull it for. ward into the Selon, and wye that which has come out. When the lord hees grown heard with the mul. let, you lay another to the end of it, and so pull it thro Bleoding

Blooding. It is a general Aule in all Bloodings that the Ligar : tivre be between the Heart and the place you design to open The Vein that is opened in the neck is the Sugularis Externa, very rolling under the Shiri, so that 'his difficult to open. There are several ways of stopping the floor in this vein the Ligarine is the common way Some put it about the Neck and bring it before and twist it, which the Satient himself or an afsistant may hold. This stops the flood well enough, but it ought never to be some to any Satient that cannot compluin as theliren or mad persons, because it may be bound loo strait. An Instance of this happiened not long ago gnot for from this lown, of a young

not long ago & not far from this lown, of a young the helo was on the mothers hnee, the Ligature was livisted which she held, within a little she sees the llass face turn

quite blue, at which she enjed, the Child is gone, and indeed it was so, for it was chooked. Therefore in such

a fase it ought to be put on the Voin and come sown obliquely over the throat and back, and by below the giposite

opposite ampit, the same is to be done on the other 239. side. Some make the Compression without a Ligalure, with a pair of Tongs which will do well mough. Whatever of these ways the returning blood is stout, to open the Vein the way that I do is this, I put my Thumb beneath the Vein to keep it sleady, & The forefinger above to Make the skin lense, then the been is ofpened obliquely, not according to the length because it might Slep, neither transversly lest it be but thro'. It ought to bedone at leisure, for the net the best blooding that is done hastily, for I have seen when I have been opining this Vein that when I cut the Shin the Vein Slipt away; so when this heypens, I draw back the Lancet and let the vein come to its oto place, and then it can be opened easily, because there is nothing betwint me and it. And the u general rule in all floodings that is should never be done too quick for then we will very often mip -

Extraction

Extraction of the Polynus.

He differs nothing from that in the publick Lectures on Tumours. He notices, that when they are small recent, and of a pale colour, we may my the luce by quing the strong aperient and Dipolvent meduines such as mercury and the Devotien of the Woods, to open the Obstruction, and externally apply astron; egents to contrait the Fibres, and so to remove the Jolypus. He letts us that by Evulsion ihs some, Fines very difficult. He instances a Boy in this Town who had a very large one that were out without his nose, hang over his upper Lip; He was consulted about it, he true to pull it out with apair of Forups, with all his strength; and like. wise there was a furted can League that was put about the lower part which others pulled by, so that I really thought we should have pulled away Nose and all together, by all this the Jolypus did not yell one bit, therefore to ease the fatient as much as poss sible, I cut away with a pair of Supars as much as

I could get hoto of: It was so hard in the middle, 41. that I would seen se get it cut through, afterwards when discited I found that it was cartilaginous, in the heart, but where it has it's root I cannot Sometimes an Acemorrhagy follows when it is cut or pulled away. Tis a common direction to prepare the Satients Body by blooding & purging if the Patient is plethonic orangemala Temperies of The the blood to be corrected that is absolutely in the night. But in operations where there is danger of an Stamonhage, I think it would be better to let alone the blooding till after the operation; for if Heemorrhages then happen the Patient is ablirte been them, for sometimes it kappens that when the Patrent hus been thus blooded before the operation, and an Hamerhage reming upon it that the Pa, trent her bed for want of blood; and of there was no Inflammation in the part, no rany sign of a Tever, I would not blood the Patient, witho I had

242 not Bled before the operation, for it is certain that the operater quantity of good Liquides the Patient has, the sooner will be becured —

Hæmorr hages after this operation are very dam rgerous, as being very hard to stop, there being no pos: sibility of coming at the place with the needle, or five thould put up strong laustus or hot Irons up the the More, we should not miss to course carrois lones, and so Ulcers in the purt would be produced, but if the Hamorrhage is so great that the Satient is in danger of his life by it, then we are to stop the blood for of two locks the lepson is to be chosen -Operation of the Trepan After the Incision made, take the hear of the Tre. pan, apply it on the bone, to see of it has room to move, If the Lips of the wound hender the operation take them of with apair of Supars, when this is done, make a mark in the Bone with the Byramid of the hear of the Trepan, then take the perfurative Trepan screw it on the arbor, and in that mark

make a hole, take it off, apply the crowned Trepan,

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holding it obliquely so that you may see the Byru. mid is in the hole, then raise it perpendicular apon the part, and clap the palm of the left hand upon The tember handle, and the forehead upon the hand with the right hand turn about the arbor: By putting the fire head upon the hand you have two advantages. The 1st is, you heep the Instrument very sleavy, and then you see their you cut equal. : by. Turn the Instrument about from the right to the left, when the teeth of the Instrument have made a furrow in the bone, take out the Fyramid. Anothers bid us go on very quick till we come to The Diploce but in some oto Subjects this is quile obliterale, so that if we should go on rashly, wait: ing for it, we may plunge our Instrument into the Brain while the piece is yet from and the Instrument has not cut deep, we fasten the Serew into it, which we may make use of after: wards to raise it, and so when unscrewed, the hole being made for it, it will easily fasten in

244 the bone without applying much force, for if we should not make a hole for the Serew before we were going to bry to oraw out the piece, we would run the hazard of depressing it upon the Brain. When the Bone is near cut thro, which we judge by the deepness the Instrument has gone, and that there is but a then Lermellu, then rather as run the risque of wounding the Dura mater by the Instrument, we try to raise the piece by The Screw, or Levator, not presence sore upon the Bone, if it be broke at the edge of the per : foration.

If the flux of blood be troublesome, when come to the Diploe, pour in some hot Spt Vin as the Orifice, which will make the vefsels con, strict themselves.

If it be depressed near the drifice, raise it with the Levator, but do not make the other side of the Orifice the Fulcrum, for then you might come to depress or fracture it in raising the

other, but without letting the Levator rest upon it 245.

support it with your Fingers, and raise the Bones.

The Datient must get softning weak Siet to atte.

nuale the Liquids, and proper Evacuatives that the
the extravasales Liquids may be taken up and
thrown out at the Emunitories.

After the Incesion made with a straight Bistony he either uses a crooked Need be without difseiting the Artery from the Parts that take care to shown the Nerves | he thrusts it thro' below it, and makes the Ligature, or he dipects it from the Sarto and uses mr. Setil's needle. He kneeds it with thee threads, the one he tres above, the other below, and the there he leaves in case there be need for it, he forbids to meddle with the threads and bolsters that they are hed on, but allow them to fall of themselves -Suture of the Tendon _

This Operation is most commonly done on the Extensors

216. Extensors of the Jingers; If the Tenden be drawn far up, he bids with a pair of Susars make In. : cision in the Shin, and with apair of Forcepts take hold of it, he uses two round crooked needles threed. ed on one waxed threes, puls one of them throthat Eschemety of the Tendon that is attached to the Muscle, not exactly in the misole of the Tendon, but a little to aside to leave room for the other Recele. He thrusts it from within outwards, he then takes hold of the other extremity, for they can't both be pierced thro' at once, and thrusts the Recole from within outwards, then takes the other needle, thrusts it in that Extremity that is attached to the muscle, leaving as much dis: tance between it and the perferation of the other as between this and the side of the Tendon, thrush it from without inwards and from within outwards in the other, by this the two ends of the thread are in one side of the Tendon Before you draw the Thread clop thro' put in a Deg

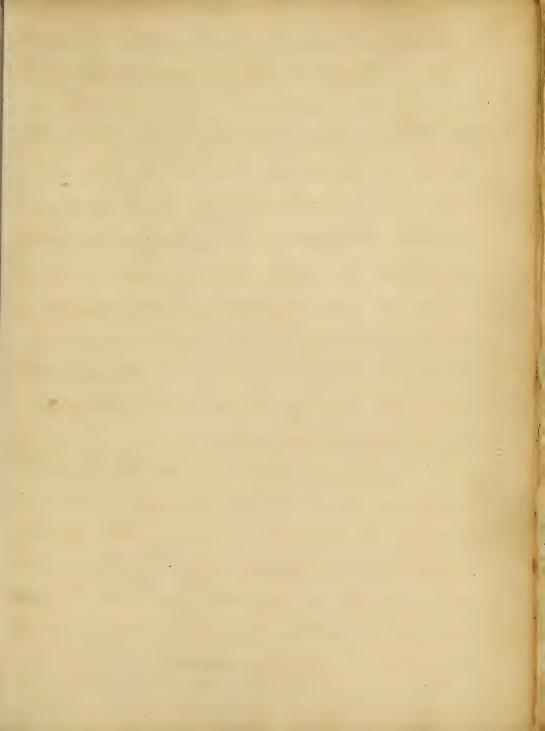
tions of the upper Extremity, which is to kinder the thread from cutting the Tendon, before you the a knot, put in a Geof as in the other &a. tremity, be sure to bring the two Extremities to touch, drop some spiritous medicine on the Tendon, let no oily or watery medicine come near it, fill the rest of the wound with Digestives, keep the fingers and Wrift ex. Itended, during the whole home of the Cure.

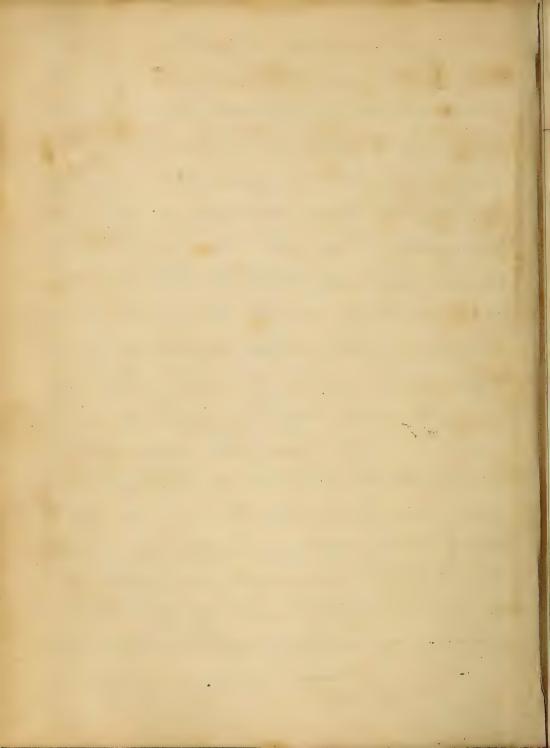
Amputation_

He differs nothing in the Amputation from farangeot, only he notices, that by the retract. une of the parts, sometimes two, three, or four Inches of the bone will be left bare, so that often before the flesh can be brought over it, the Patrint huns consumptive or Hechi, therefore he is of opinion, rather to saw of that parts of the bone, after the parts have retracted

218. retraited as much as they will do, by which the fire would be much promoted and the other accidents prevented. If the Weather be hot, then it should be dropped every day, but if wold or in Winter, then once in three or four days is sufficient, for by off dreping we take away the Sus, which when good is one of the best Balsams for Wounds, provided it be not left too long on, for then by its airi 2 mony of frets the parts . When it begins to do this, we know by its itching, and if we delay the dreping longer, then it creates Inflammation and pain ____ He is of opinion that Wounds thould not be dressed too off. He thinks the only part for leaving the Lambo or piece of flesh to cover the Stump is in amountating the Jinger when

of is sown off. for there the Vefsels are but small, and need no strong compression so as to mortify





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